The Parma Polyhedra Library Configured C Language Interface Developer's Manual*
(version 0.11.2)

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For the most up-to-date information see the Parma Polyhedra Library site:

`http://www.cs.unipr.it/ppl/`

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1 Main Page

All the declarations needed for using the PPL's C interface (preprocessor symbols, data types, variables and functions) are collected in the header file ppl_c.h. This file, which is designed to work with pre-ANSI and ANSI C compilers as well as C99 and C++ compilers, should be included, either directly or via some other header file, with the directive

```
#include <ppl_c.h>
```

If this directive does not work, then your compiler is unable to find the file ppl_c.h. So check that the library is installed (if it is not installed, you may want to `make install`, perhaps with root privileges) in the right place (if not you may want to reconfigure the library using the appropriate pathname for the `--prefix` option); and that your compiler knows where it is installed (if not you should add the path to the directory where ppl_c.h is located to the compiler's include file search path; this is usually done with the `-I` option).

The name space of the PPL's C interface is `PPL_*` for preprocessor symbols, enumeration values and variables; and `ppl_*` for data types and function names. The interface systematically uses *opaque data types* (generic pointers that completely hide the internal representations from the client code) and provides all required access functions. By using just the interface, the client code can exploit all the functionalities of the library yet avoid directly manipulating the library's data structures. The advantages are that (1) applications do not depend on the internals of the library (these may change from release to release), and (2) the interface invariants can be thoroughly checked (by the access functions).

Note

All functions taking as input argument an opaque pointer datatype assume that such an argument is actually *referring to a valid PPL object*. For instance, a function with an argument having type `ppl_MIP_Problem_t` will expect a valid MIP_Problem object, previously initialized by calling, e.g., `ppl_new_MIP_Problem`. If that is not the case (e.g., if a null pointer is passed in), the behavior is undefined.

The PPL's C interface is initialized by means of the `ppl_initialize` function. This function must be called *before using any other interface of the library*. The application can release the resources allocated by the library by calling the `ppl_finalize` function. After this function is called *no other interface of the library may be used* until the interface is re-initialized using `ppl_initialize`.

Any application using the PPL should make sure that only the intended version(s) of the library are ever used. The version used can be checked at compile-time thanks to the macros PPL_VERSION_MAJOR, PPL_VERSION_MINOR, PPL_VERSION_REVISION and PPL_VERSION_BETA, which give, respectively major, minor, revision and beta numbers of the PPL version. This is an example of their use:

```
#if PPL_VERSION_MAJOR == 0 && PPL_VERSION_MINOR < 6
# error "PPL version 0.6 or following is required"
#endif
```

Compile-time checking, however, is not normally enough, particularly in an environment where there is dynamic linking. Run-time checking can be performed by means of the functions `ppl_version_major`, `ppl_version_minor`, `ppl_version_revision`, and `ppl_version_beta`. The PPL's C interface also provides functions `ppl_version`, returning character string containing the full version number, and `ppl_banner`, returning a string that, in addition, provides (pointers to) other useful information for the library user.

All programs using the PPL's C interface must link with the following libraries: `libppl_c` (PPL's C interface), `libppl` (PPL's core), `libgmpxx` (GMP's C++ interface), and `libgmp` (GMP's library core). On most Unix-like systems, this is done by adding `-lppl_c`, `-lppl`, `-lgmpxx`, and `-lgmp` to the compiler's or linker's command line. For example:

```
gcc myprogram.o -lppl_c -lppl -lgmpxx -lgmp
```

If this does not work, it means that your compiler/linker is not finding the libraries where it expects. Again, this could be because you forgot to install the library or you installed it in a non-standard location. In the latter case you will need to use the appropriate options (usually `-L`) and, if you use shared libraries, some sort of run-time path selection mechanisms. Consult your compiler's documentation for details. Notice that the PPL is built using `Libtool` and an application can exploit this fact to significantly simplify the linking phase. See Libtool's documentation for details. Those working under Linux can find a lot of useful information on how to use program libraries (including static, shared, and dynamically loaded libraries) in the `Program Library HOWTO`.

For examples on how to use the functions provided by the C interface, you are referred to the directory `demos/ppl_lpsol/` in the source distribution. It contains a *Mixed Integer (Linear) Programming* solver written in C. In order to use this solver you will need to install `GLPK` (the GNU Linear Programming Kit): this is used to read linear programs in MPS format.

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9. TERMINATION

4 Module Index

4.1 Modules

Here is a list of all modules:

5 Namespace Index

5.1 Namespace List

Here is a list of all namespaces with brief descriptions:

6 Class Index

6.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

7 File Index

7.1 File List

Here is a list of all files with brief descriptions:

8 Module Documentation

8.1 C Language Interface

The Parma Polyhedra Library comes equipped with an interface for the C language.

8.2 Library Initialization and Finalization

Functions

- int ppl_initialize (void)

  Initializes the Parma Polyhedra Library. This function must be called before any other function.

- int ppl_finalize (void)

  Finalizes the Parma Polyhedra Library. This function must be called after any other function.

- int ppl_set_rounding_for_PPL (void)

  Sets the FPU rounding mode so that the PPL abstractions based on floating point numbers work correctly.

- int ppl_restore_pre_PPL_rounding (void)

  Sets the FPU rounding mode as it was before initialization of the PPL.

- int ppl_irrational_precision (unsigned *p)

  Writes to `p` *the precision parameter used for irrational calculations.*

- int ppl_set_irrational_precision (unsigned p)

  Sets the precision parameter used for irrational calculations.

8.2.1 Detailed Description

Functions for initialization/finalization of the library, as well as setting/resetting of floating-point rounding mode.

8.2.2 Function Documentation

8.2.2.1 int ppl_finalize (void)

Finalizes the Parma Polyhedra Library. This function must be called after any other function.

Returns

`PPL_ERROR_INVALID_ARGUMENT` if the library was already finalized.

Definition at line 243 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::saved_cxx_Variable_output_function.

8.2.2.2 int ppl_initialize (void)

Initializes the Parma Polyhedra Library. This function must be called before any other function.

Returns

`PPL_ERROR_INVALID_ARGUMENT` if the library was already initialized.

Definition at line 181 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_default_output_-function(), Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function, Parma_-Polyhedra_Library::Interfaces::C::cxx_Variable_output_function(), and Parma_Polyhedra_-Library::Interfaces::C::saved_cxx_Variable_output_function.

8.2.2.3 int ppl_irrational_precision (unsigned * *p*)

Writes to `p` the precision parameter used for irrational calculations.

Definition at line 328 of file ppl_c_implementation_common.cc.

8.2.2.4 int ppl_restore_pre_PPL_rounding (void)

Sets the FPU rounding mode as it was before initialization of the PPL.

After calling this function it is absolutely necessary to call set_rounding_for_PPL() before using any PPL abstractions based on floating point numbers. This is performed automatically at finalization-time.

Definition at line 321 of file ppl_c_implementation_common.cc.

8.2.2.5 int ppl_set_irrational_precision (unsigned *p*)

Sets the precision parameter used for irrational calculations.

If `p` is less than or equal to `INT_MAX`, sets the precision parameter used for irrational calculations to `p`. Then, in the irrational calculations returning an unbounded rational, (e.g., when computing a square root), the lesser between numerator and denominator will be limited to 2**`p`.

Definition at line 335 of file ppl_c_implementation_common.cc.

8.2.2.6 int ppl_set_rounding_for_PPL (void)

Sets the FPU rounding mode so that the PPL abstractions based on floating point numbers work correctly.

This is performed automatically at initialization-time. Calling this function is needed only if restore_pre_-PPL_rounding() has been previously called.

Definition at line 314 of file ppl_c_implementation_common.cc.

8.3 Version Checking

Defines

- #define PPL_VERSION "0.11.2"

  A string containing the PPL version.

- #define PPL_VERSION_MAJOR 0

  The major number of the PPL version.

- #define PPL_VERSION_MINOR 11

  The minor number of the PPL version.

- #define PPL_VERSION_REVISION 2

  The revision number of the PPL version.

- #define PPL_VERSION_BETA 0

  The beta number of the PPL version. This is zero for official releases and nonzero for development snapshots.

Functions

- int ppl_version_major (void)

  Returns the major number of the PPL version.

- int ppl_version_minor (void)

  Returns the minor number of the PPL version.

- int ppl_version_revision (void)

  Returns the revision number of the PPL version.

- int ppl_version_beta (void)

  Returns the beta number of the PPL version.

- int ppl_version (const char **p)

  Writes to `*p` a pointer to a character string containing the PPL version.

- int ppl_banner (const char **p)

  Writes to `*p` a pointer to a character string containing the PPL banner.

8.3.1 Detailed Description

Symbolic constants and functions related to library version checking.

8.3.2 Define Documentation

8.3.2.1 #define PPL_VERSION "0.11.2"

A string containing the PPL version.

Let `M` and `m` denote the numbers associated to PPL_VERSION_MAJOR and PPL_VERSION_MINOR, respectively. The format of PPL_VERSION is `M "." m` if both PPL_VERSION_REVISION (`r`) and PPL_VERSION_BETA (`b`)are zero, `M "." m "pre" b` if PPL_VERSION_REVISION is zero and PPL_VERSION_BETA is not zero, `M "." m "." r` if PPL_VERSION_REVISION is not zero and

PPL_VERSION_BETA is zero, `M "." m "." r "pre" b` if neither PPL_VERSION_REVISION nor PPL_VERSION_BETA are zero.

Definition at line 262 of file ppl_c.h.

8.3.2.2 #define PPL_VERSION_BETA 0

The beta number of the PPL version. This is zero for official releases and nonzero for development snapshots.

Definition at line 287 of file ppl_c.h.

8.3.2.3 #define PPL_VERSION_MAJOR 0

The major number of the PPL version.

Definition at line 268 of file ppl_c.h.

8.3.2.4 #define PPL_VERSION_MINOR 11

The minor number of the PPL version.

Definition at line 274 of file ppl_c.h.

8.3.2.5 #define PPL_VERSION_REVISION 2

The revision number of the PPL version.

Definition at line 280 of file ppl_c.h.

8.3.3 Function Documentation

8.3.3.1 int ppl_banner (const char ** *p*)

Writes to `*p` a pointer to a character string containing the PPL banner.

The banner provides information about the PPL version, the licensing, the lack of any warranty whatsoever, the C++ compiler used to build the library, where to report bugs and where to look for further information.

Definition at line 376 of file ppl_c_implementation_common.cc.

8.3.3.2 int ppl_version (const char ** *p*)

Writes to `*p` a pointer to a character string containing the PPL version.

Definition at line 366 of file ppl_c_implementation_common.cc.

8.3.3.3 int ppl_version_beta (void)

Returns the beta number of the PPL version.

Definition at line 360 of file ppl_c_implementation_common.cc.

8.3.3.4 int ppl_version_major (void)

Returns the major number of the PPL version.

Definition at line 342 of file ppl_c_implementation_common.cc.

8.3.3.5 int ppl_version_minor (void)

Returns the minor number of the PPL version.

Definition at line 348 of file ppl_c_implementation_common.cc.

8.3.3.6 int ppl_version_revision (void)

Returns the revision number of the PPL version.

Definition at line 354 of file ppl_c_implementation_common.cc.

8.4 Error Handling

Enumerations

- enum ppl_enum_error_code {
  PPL_ERROR_OUT_OF_MEMORY, PPL_ERROR_INVALID_ARGUMENT, PPL_ERROR_-DOMAIN_ERROR, PPL_ERROR_LENGTH_ERROR,
  PPL_ARITHMETIC_OVERFLOW, PPL_STDIO_ERROR, PPL_ERROR_INTERNAL_ERROR, PPL_ERROR_UNKNOWN_STANDARD_EXCEPTION,
  PPL_ERROR_UNEXPECTED_ERROR, PPL_TIMEOUT_EXCEPTION, PPL_ERROR_LOGIC_-ERROR }

  Defines the error codes that any function may return.

Functions

- int ppl_set_error_handler (void(∗h)(enum ppl_enum_error_code code, const char ∗description))

  Installs the user-defined error handler pointed at by `h`.

8.4.1 Detailed Description

Symbolic constants and functions related to error reporting/handling.

8.4.2 Enumeration Type Documentation

8.4.2.1 enum ppl_enum_error_code

Defines the error codes that any function may return.

Enumerator:

PPL_ERROR_OUT_OF_MEMORY The virtual memory available to the process has been exhausted.

PPL_ERROR_INVALID_ARGUMENT A function has been invoked with an invalid argument.

PPL_ERROR_DOMAIN_ERROR A function has been invoked outside its domain of definition.

PPL_ERROR_LENGTH_ERROR The construction of an object that would exceed its maximum permitted size was attempted.

PPL_ARITHMETIC_OVERFLOW An arithmetic overflow occurred and the computation was consequently interrupted. This can *only* happen in library's incarnations using bounded integers as coefficients.

PPL_STDIO_ERROR An error occurred during a C input/output operation. A more precise indication of what went wrong is available via `errno`.

PPL_ERROR_INTERNAL_ERROR An internal error that was diagnosed by the PPL itself. This indicates a bug in the PPL.

PPL_ERROR_UNKNOWN_STANDARD_EXCEPTION A standard exception has been raised by the C++ run-time environment. This indicates a bug in the PPL.

PPL_ERROR_UNEXPECTED_ERROR A totally unknown, totally unexpected error happened. This indicates a bug in the PPL.

PPL_TIMEOUT_EXCEPTION An exception has been raised by the PPL as a timeout previously set by the user has expired.

PPL_ERROR_LOGIC_ERROR The client program attempted to use the PPL in a way that violates its internal logic. This happens, for instance, when the client attempts to use the timeout facilities on a system that does not support them.

Definition at line 341 of file ppl_c.h.

8.4.3 Function Documentation

8.4.3.1 int ppl_set_error_handler (void(∗)(enum ppl_enum_error_code code, const char ∗description) *h*)

Installs the user-defined error handler pointed at by `h`.

The error handler takes an error code and a textual description that gives further information about the actual error. The C string containing the textual description is read-only and its existence is not guaranteed after the handler has returned.

8.5 Handling

Functions

- int ppl_set_timeout (unsigned time)

  Sets the timeout for computations whose completion could require an exponential amount of time.

- int ppl_reset_timeout (void)

  Resets the timeout time so that the computation is not interrupted.

- int ppl_set_deterministic_timeout (unsigned weight)

  Sets a threshold for computations whose completion could require an exponential amount of time.

- int ppl_reset_deterministic_timeout (void)

  Resets the deterministic timeout so that the computation is not interrupted.

8.5.1 Detailed Description

Functions for setting and resetting timeouts.

8.5.2 Function Documentation

8.5.2.1 int ppl_reset_deterministic_timeout (void)

Resets the deterministic timeout so that the computation is not interrupted.

Definition at line 301 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reset_deterministic_timeout().

8.5.2.2 int ppl_reset_timeout (void)

Resets the timeout time so that the computation is not interrupted.

Definition at line 270 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reset_timeout().

8.5.2.3 int ppl_set_deterministic_timeout (unsigned *weight*)

Sets a threshold for computations whose completion could require an exponential amount of time.

Parameters

weight The maximum computational weight allowed. It must be strictly greater than zero.

Computations taking exponential time will be interrupted some time after reaching the `weight` complexity threshold. If the computation is interrupted that way, the interrupted function will return error code `PPL_-TIMEOUT_EXCEPTION`. Otherwise, if the computation completes without being interrupted, then the deterministic timeout should be reset by calling `ppl_reset_deterministic_timeout()`.

Note

This "timeout" checking functionality is said to be *deterministic* because it is not based on actual elapsed time. Its behavior will only depend on (some of the) computations performed in the PPL library and it will be otherwise independent from the computation environment (CPU, operating system, compiler, etc.).

Warning

The weight mechanism is under alpha testing. In particular, there is still no clear relation between the weight threshold and the actual computational complexity. As a consequence, client applications should be ready to reconsider the tuning of these weight thresholds when upgrading to newer version of the PPL.

Definition at line 283 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reset_deterministic_timeout().

8.5.2.4 int ppl_set_timeout (unsigned *time*)

Sets the timeout for computations whose completion could require an exponential amount of time.

Parameters

time The number of hundreths of seconds. It must be strictly greater than zero.

Computations taking exponential time will be interrupted some time after `time` hundreths of seconds have elapsed since the call to the timeout setting function. If the computation is interrupted that way, the interrupted function will return error code `PPL_TIMEOUT_EXCEPTION`. Otherwise, if the computation completes without being interrupted, then the timeout should be reset by calling `ppl_reset_timeout()`.

Definition at line 252 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reset_timeout().

8.6 Library Datatypes

Typedefs for the library datatypes and related symbolic constants.

Typedefs

- typedef size_t ppl_dimension_type

  An unsigned integral type for representing space dimensions.

- typedef const char ∗ ppl_io_variable_output_function_type (ppl_dimension_type var)

  The type of output functions used for printing variables.

Enumerations

- enum ppl_enum_Constraint_Type {
  PPL_CONSTRAINT_TYPE_LESS_THAN, PPL_CONSTRAINT_TYPE_LESS_OR_EQUAL, PPL_CONSTRAINT_TYPE_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_OR_EQUAL,
  PPL_CONSTRAINT_TYPE_GREATER_THAN }

  Describes the relations represented by a constraint.

- enum ppl_enum_Generator_Type { PPL_GENERATOR_TYPE_LINE, PPL_GENERATOR_TYPE_RAY, PPL_GENERATOR_TYPE_POINT, PPL_GENERATOR_TYPE_CLOSURE_POINT }

  Describes the different kinds of generators.

- enum ppl_enum_Grid_Generator_Type { PPL_GRID_GENERATOR_TYPE_LINE, PPL_GRID_GENERATOR_TYPE_PARAMETER, PPL_GRID_GENERATOR_TYPE_POINT }

  Describes the different kinds of grid generators.

- enum ppl_enum_Bounded_Integer_Type_Width {
  PPL_BITS_8, PPL_BITS_16, PPL_BITS_32, PPL_BITS_64,
  PPL_BITS_128 }

  Widths of bounded integer types.

- enum ppl_enum_Bounded_Integer_Type_Representation { PPL_UNSIGNED, PPL_SIGNED_2_COMPLEMENT }

  Representation of bounded integer types.

- enum ppl_enum_Bounded_Integer_Type_Overflow { PPL_OVERFLOW_WRAPS, PPL_OVERFLOW_UNDEFINED, PPL_OVERFLOW_IMPOSSIBLE }

  Overflow behavior of bounded integer types.

Functions

- int ppl_max_space_dimension (ppl_dimension_type ∗m)

  Writes to `m` *the maximum space dimension this library can handle.*

- int ppl_not_a_dimension (ppl_dimension_type ∗m)

  Writes to `m` *a value that does not designate a valid dimension.*

- int ppl_io_print_variable (ppl_dimension_type var)

  Pretty-prints `var` *to* `stdout`*.*

- int ppl_io_fprint_variable (FILE ∗stream, ppl_dimension_type var)

  Pretty-prints `var` *to the given output* `stream`*.*

- int ppl_io_asprint_variable (char ∗∗strp, ppl_dimension_type var)

  Pretty-prints `var` *to a malloc-allocated string, a pointer to which is returned via* `strp`*.*

- int ppl_io_set_variable_output_function (ppl_io_variable_output_function_type ∗p)

Sets the output function to be used for printing variables to `p`.

- int ppl_io_get_variable_output_function (ppl_io_variable_output_function_type **pp)

  Writes a pointer to the current variable output function to `pp`.

- char * ppl_io_wrap_string (const char *src, unsigned indent_depth, unsigned preferred_first_line_-length, unsigned preferred_line_length)

  Utility function for the wrapping of lines of text.

Variables

- unsigned int PPL_COMPLEXITY_CLASS_POLYNOMIAL

  Code of the worst-case polynomial complexity class.

- unsigned int PPL_COMPLEXITY_CLASS_SIMPLEX

  Code of the worst-case exponential but typically polynomial complexity class.

- unsigned int PPL_COMPLEXITY_CLASS_ANY

  Code of the universal complexity class.

- unsigned int PPL_POLY_CON_RELATION_IS_DISJOINT

  Individual bit saying that the polyhedron and the set of points satisfying the constraint are disjoint.

- unsigned int PPL_POLY_CON_RELATION_STRICTLY_INTERSECTS

  Individual bit saying that the polyhedron intersects the set of points satisfying the constraint, but it is not included in it.

- unsigned int PPL_POLY_CON_RELATION_IS_INCLUDED

  Individual bit saying that the polyhedron is included in the set of points satisfying the constraint.

- unsigned int PPL_POLY_CON_RELATION_SATURATES

  Individual bit saying that the polyhedron is included in the set of points saturating the constraint.

- unsigned int PPL_POLY_GEN_RELATION_SUBSUMES

  Individual bit saying that adding the generator would not change the polyhedron.

8.6.1 Detailed Description

Typedefs for the library datatypes and related symbolic constants. The datatypes provided by the library should be manipulated by means of the corresponding opaque pointer types and the functions working on them.

Note

To simplify the detection of common programming mistakes, we provide both pointer-to-const and pointer-to-nonconst opaque pointers, with implicit conversions mapping each pointer-to-nonconst to the corresponding pointer-to-const when needed. The user of the C interface is therefore recommended to adopt the pointer-to-const type whenever read-only access is meant.

8.6.2 Typedef Documentation

8.6.2.1 typedef size_t ppl_dimension_type

An unsigned integral type for representing space dimensions.

Definition at line 497 of file ppl_c.h.

8.6.2.2 typedef const char* ppl_io_variable_output_function_type(ppl_dimension_type var)

The type of output functions used for printing variables.

An output function for variables must write a textual representation for `var` to a character buffer, null-terminate it, and return a pointer to the beginning of the buffer. In case the operation fails, 0 should be returned and perhaps `errno` should be set in a meaningful way. The library does nothing with the buffer, besides printing its contents.

Definition at line 541 of file ppl_c.h.

8.6.3 Enumeration Type Documentation

8.6.3.1 enum ppl_enum_Bounded_Integer_Type_Overflow

Overflow behavior of bounded integer types.

Enumerator:

PPL_OVERFLOW_WRAPS On overflow, wrapping takes place. This means that, for a w-bit bounded integer, the computation happens modulo 2^w.

PPL_OVERFLOW_UNDEFINED On overflow, the result is undefined. This simply means that the result of the operation resulting in an overflow can take any value.

Note

Even though something more serious can happen in the system being analyzed ---due to, e.g., C's undefined behavior---, here we are only concerned with the results of arithmetic operations. It is the responsibility of the analyzer to ensure that other manifestations of undefined behavior are conservatively approximated.

PPL_OVERFLOW_IMPOSSIBLE Overflow is impossible. This is for the analysis of languages where overflow is trapped before it affects the state, for which, thus, any indication that an overflow may have affected the state is necessarily due to the imprecision of the analysis.

Definition at line 2405 of file ppl_c.h.

8.6.3.2 enum ppl_enum_Bounded_Integer_Type_Representation

Representation of bounded integer types.

Enumerator:

PPL_UNSIGNED Unsigned binary.

PPL_SIGNED_2_COMPLEMENT Signed binary where negative values are represented by the two's complement of the absolute value.

Definition at line 2392 of file ppl_c.h.

8.6.3.3 enum ppl_enum_Bounded_Integer_Type_Width

Widths of bounded integer types.

Enumerator:

PPL_BITS_8 8 bits.

PPL_BITS_16 16 bits.

PPL_BITS_32 32 bits.

PPL_BITS_64 64 bits.

PPL_BITS_128 128 bits.

Definition at line 2376 of file ppl_c.h.

8.6.3.4 enum ppl_enum_Constraint_Type

Describes the relations represented by a constraint.

Enumerator:

PPL_CONSTRAINT_TYPE_LESS_THAN The constraint is of the form $e < 0$.

PPL_CONSTRAINT_TYPE_LESS_OR_EQUAL The constraint is of the form $e \leq 0$.

PPL_CONSTRAINT_TYPE_EQUAL The constraint is of the form $e = 0$.

PPL_CONSTRAINT_TYPE_GREATER_OR_EQUAL The constraint is of the form $e \geq 0$.

PPL_CONSTRAINT_TYPE_GREATER_THAN The constraint is of the form $e > 0$.

Definition at line 1125 of file ppl_c.h.

8.6.3.5 enum ppl_enum_Generator_Type

Describes the different kinds of generators.

Enumerator:

PPL_GENERATOR_TYPE_LINE The generator is a line.

PPL_GENERATOR_TYPE_RAY The generator is a ray.

PPL_GENERATOR_TYPE_POINT The generator is a point.

PPL_GENERATOR_TYPE_CLOSURE_POINT The generator is a closure point.

Definition at line 1435 of file ppl_c.h.

8.6.3.6 enum ppl_enum_Grid_Generator_Type

Describes the different kinds of grid generators.

Enumerator:

PPL_GRID_GENERATOR_TYPE_LINE The grid generator is a line.
PPL_GRID_GENERATOR_TYPE_PARAMETER The grid generator is a parameter.
PPL_GRID_GENERATOR_TYPE_POINT The grid generator is a point.

Definition at line 2027 of file ppl_c.h.

8.6.4 Function Documentation

8.6.4.1 int ppl_io_asprint_variable (char ** *strp*, ppl_dimension_type *var*)

Pretty-prints `var` to a malloc-allocated string, a pointer to which is returned via `strp`.

Definition at line 2608 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function, PPL_ERROR_OUT_-OF_MEMORY, and PPL_STDIO_ERROR.

8.6.4.2 int ppl_io_fprint_variable (FILE * *stream*, ppl_dimension_type *var*)

Pretty-prints `var` to the given output `stream`.

Definition at line 2599 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function, and PPL_STDIO_-ERROR.

8.6.4.3 int ppl_io_get_variable_output_function (ppl_io_variable_output_function_type ** *pp*)

Writes a pointer to the current variable output function to `pp`.

Definition at line 2672 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function.

8.6.4.4 int ppl_io_print_variable (ppl_dimension_type *var*)

Pretty-prints `var` to `stdout`.

Definition at line 2590 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function, and PPL_STDIO_-ERROR.

8.6.4.5 int ppl_io_set_variable_output_function (ppl_io_variable_output_function_type * *p*)

Sets the output function to be used for printing variables to `p`.

Definition at line 2664 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function.

8.6.4.6 char* ppl_io_wrap_string (const char * *src*, unsigned *indent_depth*, unsigned *preferred_first_line_length*, unsigned *preferred_line_length*)

Utility function for the wrapping of lines of text.

Parameters

src The source string holding the text to wrap.

indent_depth The indentation depth.

preferred_first_line_length The preferred length for the first line of text.

preferred_line_length The preferred length for all the lines but the first one.

Returns

The wrapped string in a malloc-allocated buffer.

Definition at line 2653 of file ppl_c_implementation_common.cc.

8.6.4.7 int ppl_max_space_dimension (ppl_dimension_type * *m*)

Writes to `m` the maximum space dimension this library can handle.

Definition at line 383 of file ppl_c_implementation_common.cc.

8.6.4.8 int ppl_not_a_dimension (ppl_dimension_type * *m*)

Writes to `m` a value that does not designate a valid dimension.

Definition at line 390 of file ppl_c_implementation_common.cc.

8.6.5 Variable Documentation

8.6.5.1 unsigned int PPL_COMPLEXITY_CLASS_ANY

Code of the universal complexity class.

Definition at line 149 of file ppl_c_implementation_common.cc.

8.6.5.2 unsigned int PPL_COMPLEXITY_CLASS_POLYNOMIAL

Code of the worst-case polynomial complexity class.

Definition at line 147 of file ppl_c_implementation_common.cc.

8.6.5.3 unsigned int PPL_COMPLEXITY_CLASS_SIMPLEX

Code of the worst-case exponential but typically polynomial complexity class.

Definition at line 148 of file ppl_c_implementation_common.cc.

8.6.5.4 unsigned int PPL_POLY_CON_RELATION_IS_DISJOINT

Individual bit saying that the polyhedron and the set of points satisfying the constraint are disjoint.

Definition at line 140 of file ppl_c_implementation_common.cc.

8.6.5.5 unsigned int PPL_POLY_CON_RELATION_IS_INCLUDED

Individual bit saying that the polyhedron is included in the set of points satisfying the constraint.

Definition at line 142 of file ppl_c_implementation_common.cc.

8.6.5.6 unsigned int PPL_POLY_CON_RELATION_SATURATES

Individual bit saying that the polyhedron is included in the set of points saturating the constraint.

Definition at line 143 of file ppl_c_implementation_common.cc.

8.6.5.7 unsigned int PPL_POLY_CON_RELATION_STRICTLY_INTERSECTS

Individual bit saying that the polyhedron intersects the set of points satisfying the constraint, but it is not included in it.

Definition at line 141 of file ppl_c_implementation_common.cc.

8.6.5.8 unsigned int PPL_POLY_GEN_RELATION_SUBSUMES

Individual bit saying that adding the generator would not change the polyhedron.

Definition at line 145 of file ppl_c_implementation_common.cc.

9 Namespace Documentation

9.1 Parma_Polyhedra_Library Namespace Reference

Namespaces

- namespace Interfaces

9.2 Parma_Polyhedra_Library::Interfaces Namespace Reference

Namespaces

- namespace C

9.3 Parma_Polyhedra_Library::Interfaces::C Namespace Reference

Classes

- class Array_Partial_Function_Wrapper

  A class to wrap an array of fixed length into a partial function interface suitable for the map_space_-dimension() methods.

- class timeout_exception
- class deterministic_timeout_exception

Typedefs

- typedef const char ∗ c_variable_output_function_type (ppl_dimension_type var)
- typedef void(∗ error_handler_type)(enum ppl_enum_error_code code, const char ∗description)
- typedef Constraint_System::const_iterator Constraint_System_const_iterator
- typedef Generator_System::const_iterator Generator_System_const_iterator
- typedef Congruence_System::const_iterator Congruence_System_const_iterator
- typedef Grid_Generator_System::const_iterator Grid_Generator_System_const_iterator
- typedef PIP_Tree_Node::Artificial_Parameter Artificial_Parameter
- typedef PIP_Tree_Node::Artificial_Parameter_Sequence Artificial_Parameter_Sequence
- typedef PIP_Tree_Node::Artificial_Parameter_Sequence::const_iterator Artificial_Parameter_-Sequence_const_iterator

Functions

- const char ∗ c_variable_default_output_function (ppl_dimension_type var)
- void cxx_Variable_output_function (std::ostream &s, const Variable &v)
- void notify_error (enum ppl_enum_error_code code, const char ∗description)
- void reset_timeout ()
- void reset_deterministic_timeout ()
- Relation_Symbol relation_symbol (enum ppl_enum_Constraint_Type t)
- Bounded_Integer_Type_Width bounded_integer_type_width (enum ppl_enum_Bounded_Integer_-Type_Width w)

- Bounded_Integer_Type_Representation bounded_integer_type_representation (enum ppl_enum_-Bounded_Integer_Type_Representation r)
- mpz_class & reinterpret_mpz_class (mpz_t n)

  Reinterpret an mpz_t as mpz_class.

- const Coefficient ∗ to_const (ppl_const_Coefficient_t x)
- Coefficient ∗ to_nonconst (ppl_Coefficient_t x)
- ppl_const_Coefficient_t to_const (const Coefficient ∗x)
- ppl_Coefficient_t to_nonconst (Coefficient ∗x)
- const Linear_Expression ∗ to_const (ppl_const_Linear_Expression_t x)
- Linear_Expression ∗ to_nonconst (ppl_Linear_Expression_t x)
- ppl_const_Linear_Expression_t to_const (const Linear_Expression ∗x)
- ppl_Linear_Expression_t to_nonconst (Linear_Expression ∗x)
- const Constraint ∗ to_const (ppl_const_Constraint_t x)
- Constraint ∗ to_nonconst (ppl_Constraint_t x)
- ppl_const_Constraint_t to_const (const Constraint ∗x)
- ppl_Constraint_t to_nonconst (Constraint ∗x)
- const Constraint_System ∗ to_const (ppl_const_Constraint_System_t x)
- Constraint_System ∗ to_nonconst (ppl_Constraint_System_t x)
- ppl_const_Constraint_System_t to_const (const Constraint_System ∗x)
- ppl_Constraint_System_t to_nonconst (Constraint_System ∗x)
- const Constraint_System_const_iterator ∗ to_const (ppl_const_Constraint_System_const_iterator_t x)
- Constraint_System_const_iterator ∗ to_nonconst (ppl_Constraint_System_const_iterator_t x)
- ppl_const_Constraint_System_const_iterator_t to_const (const Constraint_System_const_iterator ∗x)
- ppl_Constraint_System_const_iterator_t to_nonconst (Constraint_System_const_iterator ∗x)
- const Generator ∗ to_const (ppl_const_Generator_t x)
- Generator ∗ to_nonconst (ppl_Generator_t x)
- ppl_const_Generator_t to_const (const Generator ∗x)
- ppl_Generator_t to_nonconst (Generator ∗x)
- const Generator_System ∗ to_const (ppl_const_Generator_System_t x)
- Generator_System ∗ to_nonconst (ppl_Generator_System_t x)
- ppl_const_Generator_System_t to_const (const Generator_System ∗x)
- ppl_Generator_System_t to_nonconst (Generator_System ∗x)
- const Generator_System_const_iterator ∗ to_const (ppl_const_Generator_System_const_iterator_t x)
- Generator_System_const_iterator ∗ to_nonconst (ppl_Generator_System_const_iterator_t x)
- ppl_const_Generator_System_const_iterator_t to_const (const Generator_System_const_iterator ∗x)
- ppl_Generator_System_const_iterator_t to_nonconst (Generator_System_const_iterator ∗x)
- const Congruence ∗ to_const (ppl_const_Congruence_t x)
- Congruence ∗ to_nonconst (ppl_Congruence_t x)
- ppl_const_Congruence_t to_const (const Congruence ∗x)
- ppl_Congruence_t to_nonconst (Congruence ∗x)
- const Congruence_System ∗ to_const (ppl_const_Congruence_System_t x)
- Congruence_System ∗ to_nonconst (ppl_Congruence_System_t x)
- ppl_const_Congruence_System_t to_const (const Congruence_System ∗x)
- ppl_Congruence_System_t to_nonconst (Congruence_System ∗x)
- const Congruence_System_const_iterator ∗ to_const (ppl_const_Congruence_System_const_-iterator_t x)

- Congruence_System_const_iterator ∗ to_nonconst (ppl_Congruence_System_const_iterator_t x)
- ppl_const_Congruence_System_const_iterator_t to_const (const Congruence_System_const_-iterator ∗x)
- ppl_Congruence_System_const_iterator_t to_nonconst (Congruence_System_const_iterator ∗x)
- const Grid_Generator ∗ to_const (ppl_const_Grid_Generator_t x)
- Grid_Generator ∗ to_nonconst (ppl_Grid_Generator_t x)
- ppl_const_Grid_Generator_t to_const (const Grid_Generator ∗x)
- ppl_Grid_Generator_t to_nonconst (Grid_Generator ∗x)
- const Grid_Generator_System ∗ to_const (ppl_const_Grid_Generator_System_t x)
- Grid_Generator_System ∗ to_nonconst (ppl_Grid_Generator_System_t x)
- ppl_const_Grid_Generator_System_t to_const (const Grid_Generator_System ∗x)
- ppl_Grid_Generator_System_t to_nonconst (Grid_Generator_System ∗x)
- const Grid_Generator_System_const_iterator ∗ to_const (ppl_const_Grid_Generator_System_-const_iterator_t x)
- Grid_Generator_System_const_iterator ∗ to_nonconst (ppl_Grid_Generator_System_const_-iterator_t x)
- ppl_const_Grid_Generator_System_const_iterator_t to_const (const Grid_Generator_System_-const_iterator ∗x)
- ppl_Grid_Generator_System_const_iterator_t to_nonconst (Grid_Generator_System_const_iterator ∗x)
- const Artificial_Parameter ∗ to_const (ppl_const_Artificial_Parameter_t x)
- Artificial_Parameter ∗ to_nonconst (ppl_Artificial_Parameter_t x)
- ppl_const_Artificial_Parameter_t to_const (const Artificial_Parameter ∗x)
- ppl_Artificial_Parameter_t to_nonconst (Artificial_Parameter ∗x)
- const Artificial_Parameter_Sequence ∗ to_const (ppl_const_Artificial_Parameter_Sequence_t x)
- Artificial_Parameter_Sequence ∗ to_nonconst (ppl_Artificial_Parameter_Sequence_t x)
- ppl_const_Artificial_Parameter_Sequence_t to_const (const Artificial_Parameter_Sequence ∗x)
- ppl_Artificial_Parameter_Sequence_t to_nonconst (Artificial_Parameter_Sequence ∗x)
- const Artificial_Parameter_Sequence_const_iterator ∗ to_const (ppl_const_Artificial_Parameter_-Sequence_const_iterator_t x)
- Artificial_Parameter_Sequence_const_iterator ∗ to_nonconst (ppl_Artificial_Parameter_Sequence_-const_iterator_t x)
- ppl_const_Artificial_Parameter_Sequence_const_iterator_t to_const (const Artificial_Parameter_-Sequence_const_iterator ∗x)
- ppl_Artificial_Parameter_Sequence_const_iterator_t to_nonconst (Artificial_Parameter_Sequence_-const_iterator ∗x)
- const MIP_Problem ∗ to_const (ppl_const_MIP_Problem_t x)
- MIP_Problem ∗ to_nonconst (ppl_MIP_Problem_t x)
- ppl_const_MIP_Problem_t to_const (const MIP_Problem ∗x)
- ppl_MIP_Problem_t to_nonconst (MIP_Problem ∗x)
- const PIP_Problem ∗ to_const (ppl_const_PIP_Problem_t x)
- PIP_Problem ∗ to_nonconst (ppl_PIP_Problem_t x)
- ppl_const_PIP_Problem_t to_const (const PIP_Problem ∗x)
- ppl_PIP_Problem_t to_nonconst (PIP_Problem ∗x)
- const PIP_Tree_Node ∗ to_const (ppl_const_PIP_Tree_Node_t x)
- PIP_Tree_Node ∗ to_nonconst (ppl_PIP_Tree_Node_t x)
- ppl_const_PIP_Tree_Node_t to_const (const PIP_Tree_Node ∗x)
- ppl_PIP_Tree_Node_t to_nonconst (PIP_Tree_Node ∗x)
- const PIP_Decision_Node ∗ to_const (ppl_const_PIP_Decision_Node_t x)
- PIP_Decision_Node ∗ to_nonconst (ppl_PIP_Decision_Node_t x)
- ppl_const_PIP_Decision_Node_t to_const (const PIP_Decision_Node ∗x)

- ppl_PIP_Decision_Node_t to_nonconst (PIP_Decision_Node ∗x)
- const PIP_Solution_Node ∗ to_const (ppl_const_PIP_Solution_Node_t x)
- PIP_Solution_Node ∗ to_nonconst (ppl_PIP_Solution_Node_t x)
- ppl_const_PIP_Solution_Node_t to_const (const PIP_Solution_Node ∗x)
- ppl_PIP_Solution_Node_t to_nonconst (PIP_Solution_Node ∗x)
- Bounded_Integer_Type_Overflow bounded_integer_type_overflow (enum ppl_enum_Bounded_-Integer_Type_Overflow o)

Variables

- error_handler_type user_error_handler = 0
- ppl_io_variable_output_function_type ∗ c_variable_output_function
- Variable::output_function_type ∗ saved_cxx_Variable_output_function

9.3.1 Typedef Documentation

9.3.1.1 typedef PIP_Tree_Node::Artificial_Parameter Parma_Polyhedra_-Library::Interfaces::C::Artificial_Parameter

Definition at line 80 of file ppl_c_implementation_common.inlines.hh.

9.3.1.2 typedef PIP_Tree_Node::Artificial_Parameter_Sequence Parma_Polyhedra_-Library::Interfaces::C::Artificial_Parameter_Sequence

Definition at line 84 of file ppl_c_implementation_common.inlines.hh.

9.3.1.3 typedef PIP_Tree_Node::Artificial_Parameter_Sequence::const_iterator Parma_Polyhedra_Library::Interfaces::C::Artificial_Parameter_Sequence_const_iterator

Definition at line 89 of file ppl_c_implementation_common.inlines.hh.

9.3.1.4 typedef const char∗ Parma_Polyhedra_Library::Interfaces::C::c_variable_output_-function_type(ppl_dimension_type var)

Definition at line 81 of file ppl_c_implementation_common.cc.

9.3.1.5 typedef Congruence_System::const_iterator Parma_Polyhedra_-Library::Interfaces::C::Congruence_System_const_iterator

Definition at line 66 of file ppl_c_implementation_common.inlines.hh.

9.3.1.6 typedef Constraint_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Constraint_System_const_iterator

Definition at line 50 of file ppl_c_implementation_common.inlines.hh.

9.3.1.7 typedef void(∗ Parma_Polyhedra_Library::Interfaces::C::error_handler_type)(enum ppl_enum_error_code code, const char ∗description)

Definition at line 42 of file ppl_c_implementation_common.defs.hh.

9.3.1.8 typedef Generator_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Generator_System_const_iterator

Definition at line 58 of file ppl_c_implementation_common.inlines.hh.

9.3.1.9 typedef Grid_Generator_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Grid_Generator_System_const_iterator

Definition at line 75 of file ppl_c_implementation_common.inlines.hh.

9.3.2 Function Documentation

9.3.2.1 Bounded_Integer_Type_Overflow Parma_Polyhedra_Library::Interfaces::C::bounded_integer_type_overflow (enum ppl_enum_Bounded_Integer_Type_Overflow *o*) `[inline]`

Definition at line 152 of file ppl_c_implementation_common.inlines.hh.

References PPL_OVERFLOW_IMPOSSIBLE, PPL_OVERFLOW_UNDEFINED, and PPL_OVERFLOW_WRAPS.

9.3.2.2 Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::C::bounded_integer_type_representation (enum ppl_enum_Bounded_Integer_Type_Representation *r*) `[inline]`

Definition at line 140 of file ppl_c_implementation_common.inlines.hh.

References PPL_SIGNED_2_COMPLEMENT, and PPL_UNSIGNED.

9.3.2.3 Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::C::bounded_-integer_type_width (enum ppl_enum_Bounded_Integer_Type_Width *w*) [inline]

Definition at line 122 of file ppl_c_implementation_common.inlines.hh.

References PPL_BITS_128, PPL_BITS_16, PPL_BITS_32, PPL_BITS_64, and PPL_BITS_8.

9.3.2.4 const char* Parma_Polyhedra_Library::Interfaces::C::c_variable_default_output_-function (ppl_dimension_type *var*)

Definition at line 32 of file ppl_c_implementation_common.cc.

References CONVERSION, FORMAT, and user_error_handler.

Referenced by ppl_initialize().

9.3.2.5 void Parma_Polyhedra_Library::Interfaces::C::cxx_Variable_output_function (std::ostream & *s*, const Variable & *v*)

Definition at line 71 of file ppl_c_implementation_common.cc.

References c_variable_output_function.

Referenced by ppl_initialize().

9.3.2.6 void Parma_Polyhedra_Library::Interfaces::C::notify_error (enum ppl_enum_error_code *code*, const char * *description*)

9.3.2.7 mpz_class& Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class (mpz_t *n*) [inline]

Reinterpret an mpz_t as mpz_class.

Definition at line 38 of file ppl_c_implementation_common.inlines.hh.

Referenced by ppl_assign_Coefficient_from_mpz_t(), ppl_Coefficient_max(), ppl_Coefficient_min(), ppl_Coefficient_to_mpz_t(), and ppl_new_Coefficient_from_mpz_t().

9.3.2.8 Relation_Symbol Parma_Polyhedra_Library::Interfaces::C::relation_symbol (enum ppl_enum_Constraint_Type *t*) [inline]

Definition at line 104 of file ppl_c_implementation_common.inlines.hh.

References PPL_CONSTRAINT_TYPE_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_OR_-EQUAL, PPL_CONSTRAINT_TYPE_GREATER_THAN, PPL_CONSTRAINT_TYPE_LESS_OR_-EQUAL, and PPL_CONSTRAINT_TYPE_LESS_THAN.

9.3.2.9 void Parma_Polyhedra_Library::Interfaces::C::reset_deterministic_timeout ()

Referenced by ppl_reset_deterministic_timeout(), and ppl_set_deterministic_timeout().

9.3.2.10 void Parma_Polyhedra_Library::Interfaces::C::reset_timeout ()

Referenced by ppl_reset_timeout(), and ppl_set_timeout().

9.3.2.11 ppl_const_PIP_Solution_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Solution_Node ∗ x) [inline]

Definition at line 101 of file ppl_c_implementation_common.inlines.hh.

9.3.2.12 const PIP_Solution_Node∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Solution_Node_t x) [inline]

Definition at line 101 of file ppl_c_implementation_common.inlines.hh.

9.3.2.13 ppl_const_PIP_Decision_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Decision_Node ∗ x) [inline]

Definition at line 99 of file ppl_c_implementation_common.inlines.hh.

9.3.2.14 const PIP_Decision_Node∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Decision_Node_t x) [inline]

Definition at line 99 of file ppl_c_implementation_common.inlines.hh.

9.3.2.15 ppl_const_PIP_Tree_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Tree_Node ∗ x) [inline]

Definition at line 97 of file ppl_c_implementation_common.inlines.hh.

9.3.2.16 const PIP_Tree_Node∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Tree_Node_t *x*) [inline]

Definition at line 97 of file ppl_c_implementation_common.inlines.hh.

9.3.2.17 ppl_const_PIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Problem ∗ *x*) [inline]

Definition at line 95 of file ppl_c_implementation_common.inlines.hh.

9.3.2.18 const PIP_Problem∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Problem_t *x*) [inline]

Definition at line 95 of file ppl_c_implementation_common.inlines.hh.

9.3.2.19 ppl_const_MIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_const (const MIP_Problem ∗ *x*) [inline]

Definition at line 93 of file ppl_c_implementation_common.inlines.hh.

9.3.2.20 const MIP_Problem∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_MIP_Problem_t *x*) [inline]

Definition at line 93 of file ppl_c_implementation_common.inlines.hh.

9.3.2.21 ppl_const_Artificial_Parameter_Sequence_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_const (const Artificial_Parameter_Sequence_const_iterator ∗ *x*) [inline]

Definition at line 91 of file ppl_c_implementation_common.inlines.hh.

9.3.2.22 const Artificial_Parameter_Sequence_const_iterator∗ Parma_Polyhedra_-Library::Interfaces::C::to_const (ppl_const_Artificial_Parameter_Sequence_const_-iterator_t *x*) [inline]

Definition at line 91 of file ppl_c_implementation_common.inlines.hh.

9.3.2.23 ppl_const_Artificial_Parameter_Sequence_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Artificial_Parameter_Sequence $*$ *x*) [inline]

Definition at line 86 of file ppl_c_implementation_common.inlines.hh.

9.3.2.24 const Artificial_Parameter_Sequence$*$ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Artificial_Parameter_Sequence_t *x*) [inline]

Definition at line 86 of file ppl_c_implementation_common.inlines.hh.

9.3.2.25 ppl_const_Artificial_Parameter_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Artificial_Parameter $*$ *x*) [inline]

Definition at line 81 of file ppl_c_implementation_common.inlines.hh.

9.3.2.26 const Artificial_Parameter$*$ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Artificial_Parameter_t *x*) [inline]

Definition at line 81 of file ppl_c_implementation_common.inlines.hh.

9.3.2.27 ppl_const_Grid_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Grid_Generator_System_const_iterator $*$ *x*) [inline]

Definition at line 77 of file ppl_c_implementation_common.inlines.hh.

9.3.2.28 const Grid_Generator_System_const_iterator$*$ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_System_const_iterator_t *x*) [inline]

Definition at line 77 of file ppl_c_implementation_common.inlines.hh.

9.3.2.29 ppl_const_Grid_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Grid_Generator_System $*$ *x*) [inline]

Definition at line 72 of file ppl_c_implementation_common.inlines.hh.

9.3.2.30 const Grid_Generator_System* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_System_t *x*) [inline]

Definition at line 72 of file ppl_c_implementation_common.inlines.hh.

9.3.2.31 ppl_const_Grid_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Grid_Generator * *x*) [inline]

Definition at line 70 of file ppl_c_implementation_common.inlines.hh.

9.3.2.32 const Grid_Generator* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_t *x*) [inline]

Definition at line 70 of file ppl_c_implementation_common.inlines.hh.

9.3.2.33 ppl_const_Congruence_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_const (const Congruence_System_const_iterator * *x*) [inline]

Definition at line 68 of file ppl_c_implementation_common.inlines.hh.

9.3.2.34 const Congruence_System_const_iterator* Parma_Polyhedra_-Library::Interfaces::C::to_const (ppl_const_Congruence_System_const_iterator_t *x*) [inline]

Definition at line 68 of file ppl_c_implementation_common.inlines.hh.

9.3.2.35 ppl_const_Congruence_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Congruence_System * *x*) [inline]

Definition at line 64 of file ppl_c_implementation_common.inlines.hh.

9.3.2.36 const Congruence_System* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Congruence_System_t *x*) [inline]

Definition at line 64 of file ppl_c_implementation_common.inlines.hh.

9.3.2.37 ppl_const_Congruence_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Congruence ∗ x) [inline]

Definition at line 62 of file ppl_c_implementation_common.inlines.hh.

9.3.2.38 const Congruence∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Congruence_t x) [inline]

Definition at line 62 of file ppl_c_implementation_common.inlines.hh.

9.3.2.39 ppl_const_Generator_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_const (const Generator_System_const_iterator ∗ x) [inline]

Definition at line 60 of file ppl_c_implementation_common.inlines.hh.

9.3.2.40 const Generator_System_const_iterator∗ Parma_Polyhedra_-Library::Interfaces::C::to_const (ppl_const_Generator_System_const_iterator_t x) [inline]

Definition at line 60 of file ppl_c_implementation_common.inlines.hh.

9.3.2.41 ppl_const_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Generator_System ∗ x) [inline]

Definition at line 56 of file ppl_c_implementation_common.inlines.hh.

9.3.2.42 const Generator_System∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Generator_System_t x) [inline]

Definition at line 56 of file ppl_c_implementation_common.inlines.hh.

9.3.2.43 ppl_const_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Generator ∗ x) [inline]

Definition at line 54 of file ppl_c_implementation_common.inlines.hh.

9.3.2.44 const Generator* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Generator_t *x*) [inline]

Definition at line 54 of file ppl_c_implementation_common.inlines.hh.

9.3.2.45 ppl_const_Constraint_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_const (const Constraint_System_const_iterator * *x*) [inline]

Definition at line 52 of file ppl_c_implementation_common.inlines.hh.

9.3.2.46 const Constraint_System_const_iterator* Parma_Polyhedra_-Library::Interfaces::C::to_const (ppl_const_Constraint_System_const_iterator_t *x*) [inline]

Definition at line 52 of file ppl_c_implementation_common.inlines.hh.

9.3.2.47 ppl_const_Constraint_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Constraint_System * *x*) [inline]

Definition at line 48 of file ppl_c_implementation_common.inlines.hh.

9.3.2.48 const Constraint_System* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Constraint_System_t *x*) [inline]

Definition at line 48 of file ppl_c_implementation_common.inlines.hh.

9.3.2.49 ppl_const_Constraint_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Constraint * *x*) [inline]

Definition at line 46 of file ppl_c_implementation_common.inlines.hh.

9.3.2.50 const Constraint* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Constraint_t *x*) [inline]

Definition at line 46 of file ppl_c_implementation_common.inlines.hh.

9.3.2.51 ppl_const_Linear_Expression_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Linear_Expression * x) [inline]

Definition at line 44 of file ppl_c_implementation_common.inlines.hh.

9.3.2.52 const Linear_Expression* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Linear_Expression_t x) [inline]

Definition at line 44 of file ppl_c_implementation_common.inlines.hh.

9.3.2.53 ppl_const_Coefficient_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Coefficient * x) [inline]

Definition at line 42 of file ppl_c_implementation_common.inlines.hh.

9.3.2.54 const Coefficient* Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Coefficient_t x) [inline]

Definition at line 42 of file ppl_c_implementation_common.inlines.hh.

Referenced by ppl_add_Linear_Expression_to_Linear_Expression(), ppl_Artificial_Parameter_coefficient(), ppl_Artificial_Parameter_denominator(), ppl_Artificial_Parameter_get_Linear_Expression(), ppl_Artificial_Parameter_inhomogeneous_term(), ppl_Artificial_Parameter_Sequence_const_iterator_dereference(), ppl_Artificial_Parameter_Sequence_const_iterator_equal_test(), ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_Sequence_const_iterator(), ppl_assign_Coefficient_from_Coefficient(), ppl_assign_Congruence_from_Congruence(), ppl_assign_Congruence_System_const_iterator_from_Congruence_System_const_iterator(), ppl_assign_Congruence_System_from_Congruence_System(), ppl_assign_Constraint_from_Constraint(), ppl_assign_Constraint_System_const_iterator_from_Constraint_System_const_iterator(), ppl_assign_Constraint_System_from_Constraint_System(), ppl_assign_Generator_from_Generator(), ppl_assign_Generator_System_const_iterator_from_Generator_System_const_iterator(), ppl_assign_Generator_System_from_Generator_System(), ppl_assign_Grid_Generator_from_Grid_Generator(), ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator(), ppl_assign_Grid_Generator_System_from_Grid_Generator_System(), ppl_assign_Linear_Expression_from_Linear_Expression(), ppl_assign_MIP_Problem_from_MIP_Problem(), ppl_assign_PIP_Problem_from_PIP_Problem(), ppl_Coefficient_to_mpz_t(), ppl_Congruence_coefficient(), ppl_Congruence_inhomogeneous_term(), ppl_Congruence_modulus(), ppl_Congruence_OK(), ppl_Congruence_space_dimension(), ppl_Congruence_System_begin(), ppl_Congruence_System_const_iterator_dereference(), ppl_Congruence_System_const_iterator_equal_test(), ppl_Congruence_System_empty(), ppl_Congruence_System_end(), ppl_Congruence_System_insert_Congruence(), ppl_Congruence_System_OK(), ppl_Congruence_System_space_dimension(), ppl_Constraint_coefficient(), ppl_Constraint_inhomogeneous_term(), ppl_Constraint_OK(), ppl_Constraint_space_dimension(), ppl_Constraint_System_begin(), ppl_Constraint_System_const_iterator_dereference(), ppl_Constraint_System_const_iterator_equal_test(), ppl_Constraint_System_empty(), ppl_Constraint_System_end(), ppl_Constraint_System_has_strict_inequalities(), ppl_Constraint_System_insert_Constraint(), ppl_Constraint_System_OK(), ppl_Constraint_System_space_dimension(), ppl_Constraint_type(), ppl_delete_Artificial_Parameter_Sequence_const_iterator(), ppl_delete_Coefficient(), ppl_delete_-Congruence(), ppl_delete_Congruence_System(), ppl_delete_Congruence_System_const_iterator(), ppl_-delete_Constraint(), ppl_delete_Constraint_System(), ppl_delete_Constraint_System_const_iterator(), ppl_delete_Generator(), ppl_delete_Generator_System(), ppl_delete_Generator_System_const_iterator(), ppl_delete_Grid_Generator(), ppl_delete_Grid_Generator_System(), ppl_delete_Grid_Generator_-System_const_iterator(), ppl_delete_Linear_Expression(), ppl_delete_MIP_Problem(), ppl_delete_-PIP_Problem(), ppl_Generator_coefficient(), ppl_Generator_divisor(), ppl_Generator_OK(), ppl_-Generator_space_dimension(), ppl_Generator_System_begin(), ppl_Generator_System_const_iterator_-dereference(), ppl_Generator_System_const_iterator_equal_test(), ppl_Generator_System_empty(), ppl_Generator_System_end(), ppl_Generator_System_insert_Generator(), ppl_Generator_System_OK(), ppl_Generator_System_space_dimension(), ppl_Generator_type(), ppl_Grid_Generator_coefficient(), ppl_Grid_Generator_divisor(), ppl_Grid_Generator_OK(), ppl_Grid_Generator_space_dimension(), ppl_Grid_Generator_System_begin(), ppl_Grid_Generator_System_const_iterator_dereference(), ppl_-Grid_Generator_System_const_iterator_equal_test(), ppl_Grid_Generator_System_empty(), ppl_-Grid_Generator_System_end(), ppl_Grid_Generator_System_insert_Grid_Generator(), ppl_Grid_-Generator_System_OK(), ppl_Grid_Generator_System_space_dimension(), ppl_Grid_Generator_-type(), ppl_Linear_Expression_add_to_coefficient(), ppl_Linear_Expression_add_to_inhomogeneous(), ppl_Linear_Expression_all_homogeneous_terms_are_zero(), ppl_Linear_Expression_coefficient(), ppl_Linear_Expression_inhomogeneous_term(), ppl_Linear_Expression_is_zero(), ppl_Linear_-Expression_OK(), ppl_Linear_Expression_space_dimension(), ppl_MIP_Problem_add_constraint(), ppl_MIP_Problem_add_constraints(), ppl_MIP_Problem_constraint_at_index(), ppl_MIP_Problem_-evaluate_objective_function(), ppl_MIP_Problem_external_memory_in_bytes(), ppl_MIP_Problem_-feasible_point(), ppl_MIP_Problem_get_control_parameter(), ppl_MIP_Problem_integer_space_-dimensions(), ppl_MIP_Problem_is_satisfiable(), ppl_MIP_Problem_number_of_constraints(), ppl_-MIP_Problem_number_of_integer_space_dimensions(), ppl_MIP_Problem_objective_function(), ppl_MIP_Problem_OK(), ppl_MIP_Problem_optimal_value(), ppl_MIP_Problem_optimization_-mode(), ppl_MIP_Problem_optimizing_point(), ppl_MIP_Problem_set_objective_function(), ppl_MIP_-Problem_solve(), ppl_MIP_Problem_space_dimension(), ppl_MIP_Problem_total_memory_in_bytes(), ppl_multiply_Linear_Expression_by_Coefficient(), ppl_new_Artificial_Parameter_Sequence_const_-iterator_from_Artificial_Parameter_Sequence_const_iterator(), ppl_new_Coefficient_from_Coefficient(), ppl_new_Congruence(), ppl_new_Congruence_from_Congruence(), ppl_new_Congruence_System_-const_iterator_from_Congruence_System_const_iterator(), ppl_new_Congruence_System_from_-Congruence(), ppl_new_Congruence_System_from_Congruence_System(), ppl_new_Constraint(), ppl_new_Constraint_from_Constraint(), ppl_new_Constraint_System_const_iterator_from_Constraint_-System_const_iterator(), ppl_new_Constraint_System_from_Constraint(), ppl_new_Constraint_-System_from_Constraint_System(), ppl_new_Generator(), ppl_new_Generator_from_Generator(), ppl_new_Generator_System_const_iterator_from_Generator_System_const_iterator(), ppl_new_-Generator_System_from_Generator(), ppl_new_Generator_System_from_Generator_System(), ppl_-new_Grid_Generator(), ppl_new_Grid_Generator_from_Grid_Generator(), ppl_new_Grid_Generator_-System_const_iterator_from_Grid_Generator_System_const_iterator(), ppl_new_Grid_Generator_-System_from_Grid_Generator(), ppl_new_Grid_Generator_System_from_Grid_Generator_System(), ppl_new_Linear_Expression_from_Congruence(), ppl_new_Linear_Expression_from_Constraint(), ppl_-new_Linear_Expression_from_Generator(), ppl_new_Linear_Expression_from_Linear_Expression(), ppl_new_MIP_Problem(), ppl_new_MIP_Problem_from_MIP_Problem(), ppl_new_PIP_Problem_-from_constraints(), ppl_new_PIP_Problem_from_PIP_Problem(), ppl_PIP_Decision_Node_get_child_-node(), ppl_PIP_Decision_Node_OK(), ppl_PIP_Problem_add_constraint(), ppl_PIP_Problem_add_-constraints(), ppl_PIP_Problem_constraint_at_index(), ppl_PIP_Problem_external_memory_in_bytes(), ppl_PIP_Problem_get_big_parameter_dimension(), ppl_PIP_Problem_get_control_parameter(), ppl_-PIP_Problem_is_satisfiable(), ppl_PIP_Problem_number_of_constraints(), ppl_PIP_Problem_number_-of_parameter_space_dimensions(), ppl_PIP_Problem_OK(), ppl_PIP_Problem_optimizing_solution(), ppl_PIP_Problem_parameter_space_dimensions(), ppl_PIP_Problem_solution(), ppl_PIP_Problem_-solve(), ppl_PIP_Problem_space_dimension(), ppl_PIP_Problem_total_memory_in_bytes(), ppl_PIP_-Solution_Node_get_parametric_values(), ppl_PIP_Solution_Node_OK(), ppl_PIP_Tree_Node_as_-decision(), ppl_PIP_Tree_Node_as_solution(), ppl_PIP_Tree_Node_begin(), ppl_PIP_Tree_Node_end(), ppl_PIP_Tree_Node_get_constraints(), ppl_PIP_Tree_Node_number_of_artificials(), ppl_PIP_Tree_-Node_OK(), and ppl_subtract_Linear_Expression_from_Linear_Expression().

9.3.2.55 ppl_PIP_Solution_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Solution_Node * x) [inline]

Definition at line 101 of file ppl_c_implementation_common.inlines.hh.

9.3.2.56 PIP_Solution_Node* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Solution_Node_t x) [inline]

Definition at line 101 of file ppl_c_implementation_common.inlines.hh.

9.3.2.57 ppl_PIP_Decision_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Decision_Node * x) [inline]

Definition at line 99 of file ppl_c_implementation_common.inlines.hh.

9.3.2.58 PIP_Decision_Node* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Decision_Node_t x) [inline]

Definition at line 99 of file ppl_c_implementation_common.inlines.hh.

9.3.2.59 ppl_PIP_Tree_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Tree_Node * x) [inline]

Definition at line 97 of file ppl_c_implementation_common.inlines.hh.

9.3.2.60 PIP_Tree_Node* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Tree_Node_t x) [inline]

Definition at line 97 of file ppl_c_implementation_common.inlines.hh.

9.3.2.61 ppl_PIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Problem * x) [inline]

Definition at line 95 of file ppl_c_implementation_common.inlines.hh.

9.3.2.62 PIP_Problem∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Problem_t *x*) [inline]

Definition at line 95 of file ppl_c_implementation_common.inlines.hh.

9.3.2.63 ppl_MIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (MIP_Problem ∗ *x*) [inline]

Definition at line 93 of file ppl_c_implementation_common.inlines.hh.

9.3.2.64 MIP_Problem∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_MIP_Problem_t *x*) [inline]

Definition at line 93 of file ppl_c_implementation_common.inlines.hh.

9.3.2.65 ppl_Artificial_Parameter_Sequence_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Artificial_Parameter_Sequence_const_iterator ∗ *x*) [inline]

Definition at line 91 of file ppl_c_implementation_common.inlines.hh.

9.3.2.66 Artificial_Parameter_Sequence_const_iterator∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Artificial_Parameter_Sequence_const_iterator_t *x*) [inline]

Definition at line 91 of file ppl_c_implementation_common.inlines.hh.

9.3.2.67 ppl_Artificial_Parameter_Sequence_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Artificial_Parameter_Sequence ∗ *x*) [inline]

Definition at line 86 of file ppl_c_implementation_common.inlines.hh.

9.3.2.68 Artificial_Parameter_Sequence∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Artificial_Parameter_Sequence_t *x*) [inline]

Definition at line 86 of file ppl_c_implementation_common.inlines.hh.

9.3.2.69 ppl_Artificial_Parameter_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Artificial_Parameter * x) [inline]

Definition at line 81 of file ppl_c_implementation_common.inlines.hh.

9.3.2.70 Artificial_Parameter* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Artificial_Parameter_t x) [inline]

Definition at line 81 of file ppl_c_implementation_common.inlines.hh.

9.3.2.71 ppl_Grid_Generator_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_nonconst (Grid_Generator_System_const_iterator * x) [inline]

Definition at line 77 of file ppl_c_implementation_common.inlines.hh.

9.3.2.72 Grid_Generator_System_const_iterator* Parma_Polyhedra_-Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_System_const_iterator_t x) [inline]

Definition at line 77 of file ppl_c_implementation_common.inlines.hh.

9.3.2.73 ppl_Grid_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Grid_Generator_System * x) [inline]

Definition at line 72 of file ppl_c_implementation_common.inlines.hh.

9.3.2.74 Grid_Generator_System* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_System_t x) [inline]

Definition at line 72 of file ppl_c_implementation_common.inlines.hh.

9.3.2.75 ppl_Grid_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Grid_Generator * x) [inline]

Definition at line 70 of file ppl_c_implementation_common.inlines.hh.

9.3.2.76 Grid_Generator* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_t *x*) [inline]

Definition at line 70 of file ppl_c_implementation_common.inlines.hh.

9.3.2.77 ppl_Congruence_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_nonconst (Congruence_System_const_iterator * *x*) [inline]

Definition at line 68 of file ppl_c_implementation_common.inlines.hh.

9.3.2.78 Congruence_System_const_iterator* Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (ppl_Congruence_System_const_iterator_t *x*) [inline]

Definition at line 68 of file ppl_c_implementation_common.inlines.hh.

9.3.2.79 ppl_Congruence_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Congruence_System * *x*) [inline]

Definition at line 64 of file ppl_c_implementation_common.inlines.hh.

9.3.2.80 Congruence_System* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Congruence_System_t *x*) [inline]

Definition at line 64 of file ppl_c_implementation_common.inlines.hh.

9.3.2.81 ppl_Congruence_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Congruence * *x*) [inline]

Definition at line 62 of file ppl_c_implementation_common.inlines.hh.

9.3.2.82 Congruence* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Congruence_t *x*) [inline]

Definition at line 62 of file ppl_c_implementation_common.inlines.hh.

9.3.2.83 ppl_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (Generator_System_const_iterator $*$ *x*) [inline]

Definition at line 60 of file ppl_c_implementation_common.inlines.hh.

9.3.2.84 Generator_System_const_iterator$*$ Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (ppl_Generator_System_const_iterator_t *x*) [inline]

Definition at line 60 of file ppl_c_implementation_common.inlines.hh.

9.3.2.85 ppl_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Generator_System $*$ *x*) [inline]

Definition at line 56 of file ppl_c_implementation_common.inlines.hh.

9.3.2.86 Generator_System$*$ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Generator_System_t *x*) [inline]

Definition at line 56 of file ppl_c_implementation_common.inlines.hh.

9.3.2.87 ppl_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Generator $*$ *x*) [inline]

Definition at line 54 of file ppl_c_implementation_common.inlines.hh.

9.3.2.88 Generator$*$ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Generator_t *x*) [inline]

Definition at line 54 of file ppl_c_implementation_common.inlines.hh.

9.3.2.89 ppl_Constraint_System_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_nonconst (Constraint_System_const_iterator $*$ *x*) [inline]

Definition at line 52 of file ppl_c_implementation_common.inlines.hh.

9.3.2.90 Constraint_System_const_iterator* Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (ppl_Constraint_System_const_iterator_t *x*) [inline]

Definition at line 52 of file ppl_c_implementation_common.inlines.hh.

9.3.2.91 ppl_Constraint_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Constraint_System * *x*) [inline]

Definition at line 48 of file ppl_c_implementation_common.inlines.hh.

9.3.2.92 Constraint_System* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Constraint_System_t *x*) [inline]

Definition at line 48 of file ppl_c_implementation_common.inlines.hh.

9.3.2.93 ppl_Constraint_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Constraint * *x*) [inline]

Definition at line 46 of file ppl_c_implementation_common.inlines.hh.

9.3.2.94 Constraint* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Constraint_t *x*) [inline]

Definition at line 46 of file ppl_c_implementation_common.inlines.hh.

9.3.2.95 ppl_Linear_Expression_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Linear_Expression * *x*) [inline]

Definition at line 44 of file ppl_c_implementation_common.inlines.hh.

9.3.2.96 Linear_Expression* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Linear_Expression_t *x*) [inline]

Definition at line 44 of file ppl_c_implementation_common.inlines.hh.

9.3.2.97 ppl_Coefficient_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Coefficient * *x*) [inline]

Definition at line 42 of file ppl_c_implementation_common.inlines.hh.

9.3.2.98 Coefficient* Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Coefficient_t *x*) [inline]

Definition at line 42 of file ppl_c_implementation_common.inlines.hh.

Referenced by ppl_add_Linear_Expression_to_Linear_Expression(), ppl_Artificial_Parameter_coefficient(), ppl_Artificial_Parameter_denominator(), ppl_Artificial_Parameter_get_Linear_Expression(), ppl_Artificial_Parameter_inhomogeneous_term(), ppl_Artificial_Parameter_Sequence_const_iterator_increment(), ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_Sequence_const_iterator(), ppl_assign_Coefficient_from_Coefficient(), ppl_assign_Coefficient_from_mpz_t(), ppl_assign_Congruence_from_Congruence(), ppl_assign_Congruence_System_const_iterator_from_Congruence_System_const_iterator(), ppl_assign_Congruence_System_from_Congruence_System(), ppl_assign_Constraint_from_Constraint(), ppl_assign_Constraint_System_const_iterator_from_Constraint_System_const_iterator(), ppl_assign_Constraint_System_from_Constraint_System(), ppl_assign_Generator_from_Generator(), ppl_assign_Generator_System_const_iterator_from_Generator_System_const_iterator(), ppl_assign_Generator_System_from_Generator_System(), ppl_assign_Grid_Generator_from_Grid_Generator(), ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator(), ppl_assign_Grid_Generator_System_from_Grid_Generator_System(), ppl_assign_Linear_Expression_from_Linear_Expression(), ppl_assign_MIP_Problem_from_MIP_Problem(), ppl_assign_PIP_Problem_from_PIP_Problem(), ppl_Congruence_coefficient(), ppl_Congruence_inhomogeneous_term(), ppl_Congruence_modulus(), ppl_Congruence_System_begin(), ppl_Congruence_System_clear(), ppl_Congruence_System_const_iterator_increment(), ppl_Congruence_System_end(), ppl_Congruence_System_insert_Congruence(), ppl_Constraint_coefficient(), ppl_Constraint_inhomogeneous_term(), ppl_Constraint_System_begin(), ppl_Constraint_System_clear(), ppl_Constraint_System_const_iterator_increment(), ppl_Constraint_System_end(), ppl_Constraint_System_insert_Constraint(), ppl_Generator_coefficient(), ppl_Generator_divisor(), ppl_Generator_System_begin(), ppl_Generator_System_clear(), ppl_Generator_System_const_iterator_increment(), ppl_Generator_System_end(), ppl_Generator_System_insert_Generator(), ppl_Grid_Generator_coefficient(), ppl_Grid_Generator_divisor(), ppl_Grid_Generator_System_begin(), ppl_Grid_Generator_System_clear(), ppl_Grid_Generator_System_const_iterator_increment(), ppl_Grid_Generator_System_end(), ppl_Grid_Generator_System_insert_Grid_Generator(), ppl_Linear_Expression_add_to_coefficient(), ppl_Linear_Expression_add_to_inhomogeneous(), ppl_Linear_Expression_coefficient(), ppl_Linear_Expression_inhomogeneous_term(), ppl_MIP_Problem_add_constraint(), ppl_MIP_Problem_add_constraints(), ppl_MIP_Problem_add_space_dimensions_and_embed(), ppl_MIP_Problem_add_to_integer_space_dimensions(), ppl_MIP_Problem_clear(), ppl_MIP_Problem_evaluate_objective_function(), ppl_MIP_Problem_optimal_value(), ppl_MIP_Problem_set_control_parameter(), ppl_MIP_Problem_set_objective_function(), ppl_MIP_Problem_set_optimization_mode(), ppl_multiply_Linear_Expression_by_Coefficient(), ppl_new_Artificial_Parameter_Sequence_const_iterator(), ppl_new_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_Sequence_const_iterator(), ppl_new_Coefficient(), ppl_new_Coefficient_from_Coefficient(), ppl_new_Coefficient_from_mpz_t(), ppl_new_Congruence(), ppl_new_Congruence_from_Congruence(), ppl_new_Congruence_System(), ppl_new_Congruence_System_const_iterator(), ppl_new_Congruence_System_const_iterator_from_Congruence_System_const_iterator(), ppl_new_Congruence_System_from_Congruence(), ppl_new_Congruence_System_from_Congruence_System(), ppl_new_Congruence_System_zero_dim_empty(), ppl_new_Congruence_zero_dim_false(), ppl_new_Congruence_zero_dim_integrality(), ppl_new_Constraint(), ppl_new_Constraint_from_Constraint(), ppl_new_Constraint_System(), ppl_new_Constraint_System_const_iterator(), ppl_new_Constraint_System_const_iterator_from_Constraint_System_const_iterator(), ppl_new_Constraint_System_from_Constraint(), ppl_new_Constraint_System_from_Constraint_System(), ppl_new_Constraint_System_zero_dim_empty(), ppl_new_Constraint_zero_dim_false(), ppl_new_Constraint_zero_dim_-

positivity(), ppl_new_Generator(), ppl_new_Generator_from_Generator(), ppl_new_Generator_-System(), ppl_new_Generator_System_const_iterator(), ppl_new_Generator_System_const_iterator_-from_Generator_System_const_iterator(), ppl_new_Generator_System_from_Generator(), ppl_new_-Generator_System_from_Generator_System(), ppl_new_Generator_System_zero_dim_univ(), ppl_new_-Generator_zero_dim_closure_point(), ppl_new_Generator_zero_dim_point(), ppl_new_Grid_Generator(), ppl_new_Grid_Generator_from_Grid_Generator(), ppl_new_Grid_Generator_System(), ppl_new_-Grid_Generator_System_const_iterator(), ppl_new_Grid_Generator_System_const_iterator_from_-Grid_Generator_System_const_iterator(), ppl_new_Grid_Generator_System_from_Grid_Generator(), ppl_new_Grid_Generator_System_from_Grid_Generator_System(), ppl_new_Grid_Generator_System_-zero_dim_univ(), ppl_new_Grid_Generator_zero_dim_point(), ppl_new_Linear_Expression(), ppl_-new_Linear_Expression_from_Congruence(), ppl_new_Linear_Expression_from_Constraint(), ppl_-new_Linear_Expression_from_Generator(), ppl_new_Linear_Expression_from_Linear_Expression(), ppl_new_Linear_Expression_with_dimension(), ppl_new_MIP_Problem(), ppl_new_MIP_Problem_-from_MIP_Problem(), ppl_new_MIP_Problem_from_space_dimension(), ppl_new_PIP_Problem_-from_constraints(), ppl_new_PIP_Problem_from_PIP_Problem(), ppl_new_PIP_Problem_from_-space_dimension(), ppl_PIP_Problem_add_constraint(), ppl_PIP_Problem_add_constraints(), ppl_-PIP_Problem_add_space_dimensions_and_embed(), ppl_PIP_Problem_add_to_parameter_space_-dimensions(), ppl_PIP_Problem_clear(), ppl_PIP_Problem_set_big_parameter_dimension(), ppl_-PIP_Problem_set_control_parameter(), ppl_PIP_Tree_Node_begin(), ppl_PIP_Tree_Node_end(), and ppl_subtract_Linear_Expression_from_Linear_Expression().

9.3.3 Variable Documentation

9.3.3.1 ppl_io_variable_output_function_type∗ Parma_Polyhedra_Library::Interfaces::C::c_-variable_output_function

Definition at line 68 of file ppl_c_implementation_common.cc.

Referenced by cxx_Variable_output_function(), ppl_initialize(), ppl_io_asprint_variable(), ppl_io_fprint_-variable(), ppl_io_get_variable_output_function(), ppl_io_print_variable(), and ppl_io_set_variable_-output_function().

9.3.3.2 Variable::output_function_type∗ Parma_Polyhedra_Library::Interfaces::C::saved_cxx_-Variable_output_function

Definition at line 84 of file ppl_c_implementation_common.cc.

Referenced by ppl_finalize(), and ppl_initialize().

9.3.3.3 error_handler_type Parma_Polyhedra_Library::Interfaces::C::user_error_handler = 0

Definition at line 29 of file ppl_c_implementation_common.cc.

Referenced by c_variable_default_output_function(), and ppl_set_error_handler().

10 Class Documentation

10.1 Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_Wrapper Class Reference

A class to wrap an array of fixed length into a partial function interface suitable for the map_space_dimension() methods.

`#include <ppl_c_implementation_common.defs.hh>`

Public Member Functions

- Array_Partial_Function_Wrapper (dimension_type *v, size_t n)

  Construct a partial function wrapping the first `n` positions of `v`.

- bool has_empty_codomain () const

  Returns `true` if and only if the represented partial function has an empty codomain (i.e., it is always undefined).

- dimension_type max_in_codomain () const

  Returns the maximum value that belongs to the codomain of the partial function.

- bool maps (dimension_type i, dimension_type &j) const

  Assigns to `j` the value associated to `i` by `*this`, if any.

Private Attributes

- dimension_type * vec

  Holds the vector implementing the map.

- size_t vec_size

  Holds the size of `vec`.

- dimension_type max_in_codomain_

  Cache for computing the maximum dimension in the codomain.

- int empty

10.1.1 Detailed Description

A class to wrap an array of fixed length into a partial function interface suitable for the map_space_dimension() methods.

Definition at line 60 of file ppl_c_implementation_common.defs.hh.

10.1.2 Constructor & Destructor Documentation

10.1.2.1 Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_-Wrapper::Array_Partial_Function_Wrapper (dimension_type * *v*, size_t *n*) [inline]

Construct a partial function wrapping the first `n` positions of `v`.

Definition at line 167 of file ppl_c_implementation_common.inlines.hh.

10.1.3 Member Function Documentation

10.1.3.1 bool Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_-Wrapper::has_empty_codomain () const [inline]

Returns `true` if and only if the represented partial function has an empty codomain (i.e., it is always undefined).

Definition at line 172 of file ppl_c_implementation_common.inlines.hh.

References empty, vec, and vec_size.

10.1.3.2 bool Parma_Polyhedra_Library::Interfaces::C::Array_Partial_-Function_Wrapper::maps (dimension_type *i*, dimension_type & *j*) const [inline]

Assigns to `j` the value associated to `i` by `*this`, if any.

Let f be the function represented by `*this` and k be the value of `i`. If f is defined in k, then $f(k)$ is assigned to `j` and `true` is returned. If f is undefined in k, then `false` is returned.

Definition at line 199 of file ppl_c_implementation_common.inlines.hh.

References vec, and vec_size.

10.1.3.3 dimension_type Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_-Wrapper::max_in_codomain () const [inline]

Returns the maximum value that belongs to the codomain of the partial function.

Definition at line 185 of file ppl_c_implementation_common.inlines.hh.

References max_in_codomain_, vec, and vec_size.

10.1.4 Member Data Documentation

10.1.4.1 int Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_Wrapper::empty [mutable, private]

Cache for computing emptiness: -1 if we still don't know, 0 if not empty, 1 if empty.

Definition at line 103 of file ppl_c_implementation_common.defs.hh.

Referenced by has_empty_codomain().

10.1.4.2 dimension_type Parma_Polyhedra_Library::Interfaces::C::Array_-Partial_Function_Wrapper::max_in_codomain_ [mutable, private]

Cache for computing the maximum dimension in the codomain.

Definition at line 99 of file ppl_c_implementation_common.defs.hh.

Referenced by max_in_codomain().

10.1.4.3 dimension_type* Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_-Wrapper::vec [private]

Holds the vector implementing the map.

Definition at line 93 of file ppl_c_implementation_common.defs.hh.

Referenced by has_empty_codomain(), maps(), and max_in_codomain().

10.1.4.4 size_t Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_-Wrapper::vec_size [private]

Holds the size of `vec`.

Definition at line 96 of file ppl_c_implementation_common.defs.hh.

Referenced by has_empty_codomain(), maps(), and max_in_codomain().

The documentation for this class was generated from the following files:

- ppl_c_implementation_common.defs.hh
- ppl_c_implementation_common.inlines.hh

10.2 Parma_Polyhedra_Library::Interfaces::C::deterministic_timeout_exception Class Reference

```
#include <ppl_c_implementation_common.defs.hh>
```

Public Member Functions

- void throw_me () const
- int priority () const

10.2.1 Detailed Description

Definition at line 118 of file ppl_c_implementation_common.defs.hh.

10.2.2 Member Function Documentation

10.2.2.1 int Parma_Polyhedra_Library::Interfaces::C::deterministic_timeout_exception::priority () const [inline]

Definition at line 124 of file ppl_c_implementation_common.defs.hh.

10.2.2.2 void Parma_Polyhedra_Library::Interfaces::C::deterministic_timeout_-exception::throw_me () const [inline]

Definition at line 121 of file ppl_c_implementation_common.defs.hh.

The documentation for this class was generated from the following file:

- ppl_c_implementation_common.defs.hh

10.3 ppl_Artificial_Parameter_Sequence_const_iterator_tag Interface Reference

Types and functions for iterating on PIP artificial parameters.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_-Sequence_const_iterator_t ∗papit)

  Builds a new 'const iterator' and writes a handle to it at address `papit`*.*
- int ppl_new_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_-Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t ∗papit, ppl_-const_Artificial_Parameter_Sequence_const_iterator_t apit)

  Builds a const iterator that is a copy of `apit`*; writes a handle for the newly created const iterator at address* `papit`*.*

- int ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_-Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t dst, ppl_const_-Artificial_Parameter_Sequence_const_iterator_t src)

  Assigns a copy of the const iterator `src` *to* `dst`*.*

- int ppl_delete_Artificial_Parameter_Sequence_const_iterator (ppl_const_Artificial_Parameter_-Sequence_const_iterator_t apit)

  Invalidates the handle `apit` *: this makes sure the corresponding resources will eventually be released.*

Dereferencing, Incrementing and Equality Testing

- int ppl_Artificial_Parameter_Sequence_const_iterator_dereference (ppl_const_Artificial_-Parameter_Sequence_const_iterator_t apit, ppl_const_Artificial_Parameter_t *pap)

  Dereference `apit` *writing a const handle to the resulting artificial parameter at address* `pap`*.*

- int ppl_Artificial_Parameter_Sequence_const_iterator_increment (ppl_Artificial_Parameter_-Sequence_const_iterator_t apit)

  Increment `apit` *so that it "points" to the next artificial parameter.*

- int ppl_Artificial_Parameter_Sequence_const_iterator_equal_test (ppl_const_Artificial_-Parameter_Sequence_const_iterator_t x, ppl_const_Artificial_Parameter_Sequence_const_-iterator_t y)

  Returns a positive integer if the iterators corresponding to `x` *and* `y` *are equal; returns 0 if they are different.*

10.3.1 Detailed Description

Types and functions for iterating on PIP artificial parameters.

10.3.2 Friends And Related Function Documentation

10.3.2.1 int ppl_Artificial_Parameter_Sequence_const_iterator_dereference (ppl_const_-Artificial_Parameter_Sequence_const_iterator_t *apit*, ppl_const_Artificial_Parameter_t * *pap*) `[related]`

Dereference `apit` writing a const handle to the resulting artificial parameter at address `pap`.

Definition at line 2561 of file ppl_c_implementation_common.cc.

10.3.2.2 int ppl_Artificial_Parameter_Sequence_const_iterator_equal_test (ppl_const_Artificial_Parameter_Sequence_const_iterator_t *x*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *y*) `[related]`

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

Definition at line 2581 of file ppl_c_implementation_common.cc.

10.3.2.3 int ppl_Artificial_Parameter_Sequence_const_iterator_increment (ppl_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Increment `apit` so that it "points" to the next artificial parameter.

Definition at line 2572 of file ppl_c_implementation_common.cc.

10.3.2.4 int ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_-Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_-iterator_t *dst*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *src*) [related]

Assigns a copy of the const iterator `src` to `dst`.

Definition at line 2550 of file ppl_c_implementation_common.cc.

10.3.2.5 int ppl_delete_Artificial_Parameter_Sequence_const_iterator (ppl_const_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Invalidates the handle `apit`: this makes sure the corresponding resources will eventually be released.

Definition at line 2541 of file ppl_c_implementation_common.cc.

10.3.2.6 int ppl_new_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t * *papit*) [related]

Builds a new 'const iterator' and writes a handle to it at address `papit`.

Definition at line 2524 of file ppl_c_implementation_common.cc.

10.3.2.7 int ppl_new_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_-Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t * *papit*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Builds a const iterator that is a copy of `apit`; writes a handle for the newly created const iterator at address `papit`.

Definition at line 2532 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.4 ppl_Artificial_Parameter_tag Interface Reference

Types and functions for PIP artificial parameters.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_Artificial_Parameter_get_Linear_Expression (ppl_const_Artificial_Parameter_t ap, ppl_Linear_Expression_t le)

    Copies into `le` *the linear expression in artificial parameter* `ap`*.*

- int ppl_Artificial_Parameter_coefficient (ppl_const_Artificial_Parameter_t ap, ppl_dimension_type var, ppl_Coefficient_t n)

    Copies into `n` *the coefficient of variable* `var` *in the artificial parameter* `ap`*.*

- int ppl_Artificial_Parameter_get_inhomogeneous_term (ppl_const_Artificial_Parameter_t ap, ppl_Coefficient_t n)

    Copies into `n` *the inhomogeneous term of the artificial parameter* `ap`*.*

- int ppl_Artificial_Parameter_denominator (ppl_const_Artificial_Parameter_t ap, ppl_Coefficient_t n)

    Copies into `n` *the denominator in artificial parameter* `ap`*.*

10.4.1 Detailed Description

Types and functions for PIP artificial parameters. The types and functions for PIP artificial parameters provide an interface towards *Artificial_Parameter*.

10.4.2 Friends And Related Function Documentation

10.4.2.1 int ppl_Artificial_Parameter_coefficient (ppl_const_Artificial_Parameter_t *ap*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Copies into `n` the coefficient of variable `var` in the artificial parameter `ap`.

Definition at line 2488 of file ppl_c_implementation_common.cc.

10.4.2.2 int ppl_Artificial_Parameter_denominator (ppl_const_Artificial_Parameter_t *ap*, ppl_Coefficient_t *n*) `[related]`

Copies into `n` the denominator in artificial parameter `ap`.

Definition at line 2510 of file ppl_c_implementation_common.cc.

10.4.2.3 int ppl_Artificial_Parameter_get_inhomogeneous_term (ppl_const_Artificial_Parameter_t *ap*, ppl_Coefficient_t *n*) `[related]`

Copies into `n` the inhomogeneous term of the artificial parameter `ap`.

10.4.2.4 int ppl_Artificial_Parameter_get_Linear_Expression (ppl_const_Artificial_Parameter_t *ap*, ppl_Linear_Expression_t *le*) `[related]`

Copies into `le` the linear expression in artificial parameter `ap`.

Definition at line 2478 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.5 ppl_BD_Shape_double_tag Interface Reference

Types and functions for ppl_BD_Shape_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_double (ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_double_from_space_dimension (ppl_BD_Shape_double_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_double_from_Int8_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_double_from_Int16_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_double_from_Int32_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_double_from_Int64_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_double_from_Uint8_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_double_from_Uint16_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_double_from_Uint32_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_double_from_Uint64_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_double_from_Z_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_double_from_Rational_Box (ppl_BD_Shape_double_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_int8_t (ppl_BD_Shape_double_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_int16_t (ppl_BD_Shape_double_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)

- int ppl_new_BD_Shape_double_from_BD_Shape_int32_t (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_int64_t (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_mpz_class (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_mpq_class (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int8_t (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int16_t (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int32_t (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int64_t (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_double_from_C_Polyhedron (ppl_BD_Shape_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_double_from_NNC_Polyhedron (ppl_BD_Shape_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_double_from_Grid (ppl_BD_Shape_double_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_double_from_Float_Box (ppl_BD_Shape_double_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_float (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_float (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_double_from_Double_Box (ppl_BD_Shape_double_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_double (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_double (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_double_from_Long_Double_Box (ppl_BD_Shape_double_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_double_from_BD_Shape_long_double (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_long_double (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_double_from_Int8_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Int16_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Int32_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Int64_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Int64_Box_t ph, int complexity)

- int ppl_new_BD_Shape_double_from_Uint8_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Uint16_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Uint32_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Uint64_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Z_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Rational_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_C_Polyhedron_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Grid_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Float_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_float_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Double_Box_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_double_with_complexity (ppl_BD_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)

- int ppl_new_BD_Shape_double_from_Octagonal_Shape_double_with_complexity (ppl_BD_-Shape_double_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Long_Double_Box_with_complexity (ppl_BD_Shape_-double_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_BD_Shape_long_double_with_complexity (ppl_BD_-Shape_double_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Octagonal_Shape_long_double_with_complexity (ppl_-BD_Shape_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_double_from_Constraint_System (ppl_BD_Shape_double_t *pph, ppl_-const_Constraint_System_t cs)
- int ppl_new_BD_Shape_double_from_Congruence_System (ppl_BD_Shape_double_t *pph, ppl_-const_Congruence_System_t cs)
- int ppl_new_BD_Shape_double_from_Generator_System (ppl_BD_Shape_double_t *pph, ppl_-const_Generator_System_t cs)
- int ppl_BD_Shape_double_space_dimension (ppl_const_BD_Shape_double_t ph, ppl_dimension_-type *m)
- int ppl_BD_Shape_double_affine_dimension (ppl_const_BD_Shape_double_t ph, ppl_dimension_-type *m)
- int ppl_BD_Shape_double_relation_with_Constraint (ppl_const_BD_Shape_double_t ph, ppl_-const_Constraint_t c)
- int ppl_BD_Shape_double_relation_with_Generator (ppl_const_BD_Shape_double_t ph, ppl_-const_Generator_t c)
- int ppl_BD_Shape_double_relation_with_Congruence (ppl_const_BD_Shape_double_t ph, ppl_-const_Congruence_t c)
- int ppl_BD_Shape_double_get_constraints (ppl_const_BD_Shape_double_t ph, ppl_const_-Constraint_System_t *pcs)
- int ppl_BD_Shape_double_get_congruences (ppl_const_BD_Shape_double_t ph, ppl_const_-Congruence_System_t *pcs)
- int ppl_BD_Shape_double_get_minimized_constraints (ppl_const_BD_Shape_double_t ph, ppl_-const_Constraint_System_t *pcs)
- int ppl_BD_Shape_double_get_minimized_congruences (ppl_const_BD_Shape_double_t ph, ppl_-const_Congruence_System_t *pcs)
- int ppl_BD_Shape_double_is_empty (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_is_universe (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_is_bounded (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_contains_integer_point (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_is_topologically_closed (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_is_discrete (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_topological_closure_assign (ppl_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_bounds_from_above (ppl_const_BD_Shape_double_t ph, ppl_const_-Linear_Expression_t le)
- int ppl_BD_Shape_double_bounds_from_below (ppl_const_BD_Shape_double_t ph, ppl_const_-Linear_Expression_t le)
- int ppl_BD_Shape_double_maximize (ppl_const_BD_Shape_double_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_double_minimize (ppl_const_BD_Shape_double_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_double_maximize_with_point (ppl_const_BD_Shape_double_t ph, ppl_const_-Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_-Generator_t point)

- int ppl_BD_Shape_double_minimize_with_point (ppl_const_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_double_frequency (ppl_const_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_double_contains_BD_Shape_double (ppl_const_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_strictly_contains_BD_Shape_double (ppl_const_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_is_disjoint_from_BD_Shape_double (ppl_const_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_equals_BD_Shape_double (ppl_const_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_OK (ppl_const_BD_Shape_double_t ph)
- int ppl_BD_Shape_double_add_constraint (ppl_BD_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_double_add_congruence (ppl_BD_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_double_add_constraints (ppl_BD_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_double_add_congruences (ppl_BD_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_double_refine_with_constraint (ppl_BD_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_double_refine_with_congruence (ppl_BD_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_double_refine_with_constraints (ppl_BD_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_double_refine_with_congruences (ppl_BD_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_double_intersection_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_upper_bound_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_difference_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_concatenate_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_time_elapse_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_upper_bound_assign_if_exact (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_simplify_using_context_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_constrains (ppl_BD_Shape_double_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_double_unconstrain_space_dimension (ppl_BD_Shape_double_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_double_unconstrain_space_dimensions (ppl_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_double_affine_image (ppl_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_double_affine_preimage (ppl_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_double_bounded_affine_image (ppl_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_double_bounded_affine_preimage (ppl_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_double_generalized_affine_image (ppl_BD_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_double_generalized_affine_preimage (ppl_BD_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_double_generalized_affine_image_lhs_rhs (ppl_BD_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_double_add_space_dimensions_and_embed (ppl_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_double_add_space_dimensions_and_project (ppl_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_double_remove_space_dimensions (ppl_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_double_remove_higher_space_dimensions (ppl_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_double_expand_space_dimension (ppl_BD_Shape_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_double_fold_space_dimensions (ppl_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_double_map_space_dimensions (ppl_BD_Shape_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_double_drop_some_non_integer_points (ppl_BD_Shape_double_t ph, int complexity)
- int ppl_BD_Shape_double_drop_some_non_integer_points_2 (ppl_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_double_external_memory_in_bytes (ppl_const_BD_Shape_double_t ps, size_t ∗sz)
- int ppl_BD_Shape_double_total_memory_in_bytes (ppl_const_BD_Shape_double_t ps, size_t ∗sz)
- int ppl_BD_Shape_double_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, unsigned ∗tp)
- int ppl_BD_Shape_double_H79_widening_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, unsigned ∗tp)
- int ppl_BD_Shape_double_BHMZ05_widening_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_H79_widening_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_widening_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, unsigned ∗tp)

- int ppl_BD_Shape_double_widening_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_double_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_double_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_double_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_double_limited_H79_extrapolation_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_double_limited_CC76_extrapolation_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_double_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, unsigned *tp)
- int ppl_BD_Shape_double_CC76_extrapolation_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_CC76_narrowing_assign (ppl_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y)
- int ppl_BD_Shape_double_linear_partition (ppl_const_BD_Shape_double_t x, ppl_const_BD_Shape_double_t y, ppl_BD_Shape_double_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_double_wrap_assign (ppl_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_double_recycle_Constraint_System (ppl_BD_Shape_double_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_double_recycle_Congruence_System (ppl_BD_Shape_double_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_double_recycle_Generator_System (ppl_BD_Shape_double_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_double_from_BD_Shape_double (ppl_BD_Shape_double_t dst, ppl_const_BD_Shape_double_t src)
- int ppl_BD_Shape_double_add_recycled_constraints (ppl_BD_Shape_double_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_double_add_recycled_congruences (ppl_BD_Shape_double_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_double (ppl_const_BD_Shape_double_t pset)
- int ppl_termination_test_PR_BD_Shape_double (ppl_const_BD_Shape_double_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_double (ppl_const_BD_Shape_double_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_double (ppl_const_BD_Shape_double_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_double (ppl_const_BD_Shape_double_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_double (ppl_const_BD_Shape_double_t pset, ppl_Polyhedron_t ph)

- int ppl_termination_test_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after)
- int ppl_termination_test_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t pset_before, ppl_const_BD_Shape_double_t pset_after, ppl_Polyhedron_t ph)

10.5.1 Detailed Description

Types and functions for ppl_BD_Shape_double_tag.

10.5.2 Friends And Related Function Documentation

10.5.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.5.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.5.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.5.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.5.2.5 int ppl_assign_BD_Shape_double_from_BD_Shape_double (ppl_BD_Shape_double_t *dst*, ppl_const_BD_Shape_double_t *src*) [related]

10.5.2.6 int ppl_BD_Shape_double_add_congruence (ppl_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.5.2.7 int ppl_BD_Shape_double_add_congruences (ppl_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.5.2.8 int ppl_BD_Shape_double_add_constraint (ppl_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.5.2.9 int ppl_BD_Shape_double_add_constraints (ppl_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.10 int ppl_BD_Shape_double_add_recycled_congruences (ppl_BD_Shape_double_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.5.2.11 int ppl_BD_Shape_double_add_recycled_constraints (ppl_BD_Shape_double_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.5.2.12 int ppl_BD_Shape_double_add_space_dimensions_and_embed (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.5.2.13 int ppl_BD_Shape_double_add_space_dimensions_and_project (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.5.2.14 int ppl_BD_Shape_double_affine_dimension (ppl_const_BD_Shape_double_t *ph*, ppl_dimension_type * *m*) [related]

10.5.2.15 int ppl_BD_Shape_double_affine_image (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.5.2.16 int ppl_BD_Shape_double_affine_preimage (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.5.2.17 int ppl_BD_Shape_double_BHMZ05_widening_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.18 int ppl_BD_Shape_double_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, unsigned * *tp*) [related]

10.5.2.19 int ppl_BD_Shape_double_bounded_affine_image (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.5.2.20 int ppl_BD_Shape_double_bounded_affine_preimage (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.5.2.21 int ppl_BD_Shape_double_bounds_from_above (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.5.2.22 int ppl_BD_Shape_double_bounds_from_below (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.5.2.23 int ppl_BD_Shape_double_CC76_extrapolation_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.24 int ppl_BD_Shape_double_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, unsigned * *tp*) [related]

10.5.2.25 int ppl_BD_Shape_double_CC76_narrowing_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.26 int ppl_BD_Shape_double_concatenate_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.27 int ppl_BD_Shape_double_constrains (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.5.2.28 int ppl_BD_Shape_double_contains_BD_Shape_double (ppl_const_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.29 int ppl_BD_Shape_double_contains_integer_point (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.30 int ppl_BD_Shape_double_difference_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.31 int ppl_BD_Shape_double_drop_some_non_integer_points (ppl_BD_Shape_double_t *ph*, int *complexity*) [related]

10.5.2.32 int ppl_BD_Shape_double_drop_some_non_integer_points_2 (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.5.2.33 int ppl_BD_Shape_double_equals_BD_Shape_double (ppl_const_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.34 int ppl_BD_Shape_double_expand_space_dimension (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.5.2.35 int ppl_BD_Shape_double_external_memory_in_bytes (ppl_const_BD_Shape_double_t *ps*, size_t * *sz*) [related]

10.5.2.36 int ppl_BD_Shape_double_fold_space_dimensions (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.5.2.37 int ppl_BD_Shape_double_frequency (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.5.2.38 int ppl_BD_Shape_double_generalized_affine_image (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.5.2.39 int ppl_BD_Shape_double_generalized_affine_image_lhs_rhs (ppl_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.5.2.40 int ppl_BD_Shape_double_generalized_affine_preimage (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.5.2.41 int ppl_BD_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.5.2.42 int ppl_BD_Shape_double_get_congruences (ppl_const_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.5.2.43 int ppl_BD_Shape_double_get_constraints (ppl_const_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.5.2.44 int ppl_BD_Shape_double_get_minimized_congruences (ppl_const_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.5.2.45 int ppl_BD_Shape_double_get_minimized_constraints (ppl_const_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.5.2.46 int ppl_BD_Shape_double_H79_widening_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.47 int ppl_BD_Shape_double_H79_widening_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, unsigned * *tp*) [related]

10.5.2.48 int ppl_BD_Shape_double_intersection_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.49 int ppl_BD_Shape_double_is_bounded (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.50 int ppl_BD_Shape_double_is_discrete (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.51 int ppl_BD_Shape_double_is_disjoint_from_BD_Shape_double (ppl_const_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.52 int ppl_BD_Shape_double_is_empty (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.53 int ppl_BD_Shape_double_is_topologically_closed (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.54 int ppl_BD_Shape_double_is_universe (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.55 int ppl_BD_Shape_double_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.56 int ppl_BD_Shape_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.5.2.57 int ppl_BD_Shape_double_limited_CC76_extrapolation_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.58 int ppl_BD_Shape_double_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.5.2.59 int ppl_BD_Shape_double_limited_H79_extrapolation_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.60 int ppl_BD_Shape_double_limited_H79_extrapolation_assign_with_tokens (ppl_BD_-Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.5.2.61 int ppl_BD_Shape_double_linear_partition (ppl_const_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, ppl_BD_Shape_double_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.5.2.62 int ppl_BD_Shape_double_map_space_dimensions (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.5.2.63 int ppl_BD_Shape_double_maximize (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.5.2.64 int ppl_BD_Shape_double_maximize_with_point (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.5.2.65 int ppl_BD_Shape_double_minimize (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.5.2.66 int ppl_BD_Shape_double_minimize_with_point (ppl_const_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.5.2.67 int ppl_BD_Shape_double_OK (ppl_const_BD_Shape_double_t *ph*) [related]

10.5.2.68 int ppl_BD_Shape_double_refine_with_congruence (ppl_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.5.2.69 int ppl_BD_Shape_double_refine_with_congruences (ppl_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.5.2.70 int ppl_BD_Shape_double_refine_with_constraint (ppl_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.5.2.71 int ppl_BD_Shape_double_refine_with_constraints (ppl_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.72 int ppl_BD_Shape_double_relation_with_Congruence (ppl_const_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.5.2.73 int ppl_BD_Shape_double_relation_with_Constraint (ppl_const_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.5.2.74 int ppl_BD_Shape_double_relation_with_Generator (ppl_const_BD_Shape_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.5.2.75 int ppl_BD_Shape_double_remove_higher_space_dimensions (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.5.2.76 int ppl_BD_Shape_double_remove_space_dimensions (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.5.2.77 int ppl_BD_Shape_double_simplify_using_context_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.78 int ppl_BD_Shape_double_space_dimension (ppl_const_BD_Shape_double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.5.2.79 int ppl_BD_Shape_double_strictly_contains_BD_Shape_double (ppl_const_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.80 int ppl_BD_Shape_double_time_elapse_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.81 int ppl_BD_Shape_double_topological_closure_assign (ppl_BD_Shape_double_t *ph*) [related]

10.5.2.82 int ppl_BD_Shape_double_total_memory_in_bytes (ppl_const_BD_Shape_double_t *ps*, size_t ∗ *sz*) [related]

10.5.2.83 int ppl_BD_Shape_double_unconstrain_space_dimension (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.5.2.84 int ppl_BD_Shape_double_unconstrain_space_dimensions (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.5.2.85 int ppl_BD_Shape_double_upper_bound_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) [related]

10.5.2.86 int ppl_BD_Shape_double_upper_bound_assign_if_exact (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) `[related]`

10.5.2.87 int ppl_BD_Shape_double_widening_assign (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*) `[related]`

10.5.2.88 int ppl_BD_Shape_double_widening_assign_with_tokens (ppl_BD_Shape_double_t *x*, ppl_const_BD_Shape_double_t *y*, unsigned * *tp*) `[related]`

10.5.2.89 int ppl_BD_Shape_double_wrap_assign (ppl_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) `[related]`

10.5.2.90 int ppl_delete_BD_Shape_double (ppl_const_BD_Shape_double_t *ph*) `[related]`

10.5.2.91 int ppl_new_BD_Shape_double_from_BD_Shape_double (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.5.2.92 int ppl_new_BD_Shape_double_from_BD_Shape_double_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) `[related]`

10.5.2.93 int ppl_new_BD_Shape_double_from_BD_Shape_float (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*) `[related]`

10.5.2.94 int ppl_new_BD_Shape_double_from_BD_Shape_float_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) `[related]`

10.5.2.95 int ppl_new_BD_Shape_double_from_BD_Shape_int16_t (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.5.2.96 int ppl_new_BD_Shape_double_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.5.2.97 int ppl_new_BD_Shape_double_from_BD_Shape_int32_t (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.5.2.98 int ppl_new_BD_Shape_double_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.5.2.99 int ppl_new_BD_Shape_double_from_BD_Shape_int64_t (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.5.2.100 int ppl_new_BD_Shape_double_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.5.2.101 int ppl_new_BD_Shape_double_from_BD_Shape_int8_t (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.5.2.102 int ppl_new_BD_Shape_double_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.5.2.103 int ppl_new_BD_Shape_double_from_BD_Shape_long_double (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.5.2.104 int ppl_new_BD_Shape_double_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.5.2.105 int ppl_new_BD_Shape_double_from_BD_Shape_mpq_class (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.5.2.106 int ppl_new_BD_Shape_double_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.5.2.107 int ppl_new_BD_Shape_double_from_BD_Shape_mpz_class (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.5.2.108 int ppl_new_BD_Shape_double_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.5.2.109 int ppl_new_BD_Shape_double_from_C_Polyhedron (ppl_BD_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.5.2.110 int ppl_new_BD_Shape_double_from_C_Polyhedron_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.5.2.111 int ppl_new_BD_Shape_double_from_Congruence_System (ppl_BD_Shape_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.5.2.112 int ppl_new_BD_Shape_double_from_Constraint_System (ppl_BD_Shape_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.5.2.113 int ppl_new_BD_Shape_double_from_Double_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.5.2.114 int ppl_new_BD_Shape_double_from_Double_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.5.2.115 int ppl_new_BD_Shape_double_from_Float_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.5.2.116 int ppl_new_BD_Shape_double_from_Float_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.5.2.117 int ppl_new_BD_Shape_double_from_Generator_System (ppl_BD_Shape_double_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.5.2.118 int ppl_new_BD_Shape_double_from_Grid (ppl_BD_Shape_double_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.5.2.119 int ppl_new_BD_Shape_double_from_Grid_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.5.2.120 int ppl_new_BD_Shape_double_from_Int16_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.5.2.121 int ppl_new_BD_Shape_double_from_Int16_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.5.2.122 int ppl_new_BD_Shape_double_from_Int32_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.5.2.123 int ppl_new_BD_Shape_double_from_Int32_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.5.2.124 int ppl_new_BD_Shape_double_from_Int64_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.5.2.125 int ppl_new_BD_Shape_double_from_Int64_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.5.2.126 int ppl_new_BD_Shape_double_from_Int8_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.5.2.127 int ppl_new_BD_Shape_double_from_Int8_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.5.2.128 int ppl_new_BD_Shape_double_from_Long_Double_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.5.2.129 int ppl_new_BD_Shape_double_from_Long_Double_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.5.2.130 int ppl_new_BD_Shape_double_from_NNC_Polyhedron (ppl_BD_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.5.2.131 int ppl_new_BD_Shape_double_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.5.2.132 int ppl_new_BD_Shape_double_from_Octagonal_Shape_double (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.5.2.133 int ppl_new_BD_Shape_double_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.5.2.134 int ppl_new_BD_Shape_double_from_Octagonal_Shape_float (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.5.2.135 int ppl_new_BD_Shape_double_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.5.2.136 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int16_t (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.5.2.137 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.5.2.138 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int32_t (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.5.2.139 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.5.2.140 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int64_t (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.5.2.141 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.5.2.142 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int8_t (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.5.2.143 int ppl_new_BD_Shape_double_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.5.2.144 int ppl_new_BD_Shape_double_from_Octagonal_Shape_long_double (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.5.2.145 int ppl_new_BD_Shape_double_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.5.2.146 int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.5.2.147 int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.5.2.148 int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.5.2.149 int ppl_new_BD_Shape_double_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.5.2.150 int ppl_new_BD_Shape_double_from_Rational_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.5.2.151 int ppl_new_BD_Shape_double_from_Rational_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.5.2.152 int ppl_new_BD_Shape_double_from_space_dimension (ppl_BD_Shape_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.5.2.153 int ppl_new_BD_Shape_double_from_Uint16_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.5.2.154 int ppl_new_BD_Shape_double_from_Uint16_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.5.2.155 int ppl_new_BD_Shape_double_from_Uint32_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.5.2.156 int ppl_new_BD_Shape_double_from_Uint32_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.5.2.157 int ppl_new_BD_Shape_double_from_Uint64_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.5.2.158 int ppl_new_BD_Shape_double_from_Uint64_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.5.2.159 int ppl_new_BD_Shape_double_from_Uint8_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.5.2.160 int ppl_new_BD_Shape_double_from_Uint8_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.5.2.161 int ppl_new_BD_Shape_double_from_Z_Box (ppl_BD_Shape_double_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.5.2.162 int ppl_new_BD_Shape_double_from_Z_Box_with_complexity (ppl_BD_Shape_double_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.5.2.163 int ppl_new_BD_Shape_double_recycle_Congruence_System (ppl_BD_Shape_double_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.5.2.164 int ppl_new_BD_Shape_double_recycle_Constraint_System (ppl_BD_Shape_double_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.5.2.165 int ppl_new_BD_Shape_double_recycle_Generator_System (ppl_BD_Shape_double_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.5.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*, ppl_Generator_t *point*) [related]

10.5.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.5.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*, ppl_Generator_t *point*) [related]

10.5.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.5.2.170 int ppl_termination_test_MS_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*) [related]

10.5.2.171 int ppl_termination_test_MS_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*) [related]

10.5.2.172 int ppl_termination_test_PR_BD_Shape_double (ppl_const_BD_Shape_double_t *pset*) [related]

10.5.2.173 int ppl_termination_test_PR_BD_Shape_double_2 (ppl_const_BD_Shape_double_t *pset_before*, ppl_const_BD_Shape_double_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.6 ppl_BD_Shape_float_tag Interface Reference

Types and functions for ppl_BD_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_float (ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_float_from_space_dimension (ppl_BD_Shape_float_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_float_from_Int8_Box (ppl_BD_Shape_float_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_float_from_Int16_Box (ppl_BD_Shape_float_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_float_from_Int32_Box (ppl_BD_Shape_float_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_float_from_Int64_Box (ppl_BD_Shape_float_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_float_from_Uint8_Box (ppl_BD_Shape_float_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_float_from_Uint16_Box (ppl_BD_Shape_float_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_float_from_Uint32_Box (ppl_BD_Shape_float_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_float_from_Uint64_Box (ppl_BD_Shape_float_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_float_from_Z_Box (ppl_BD_Shape_float_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_float_from_Rational_Box (ppl_BD_Shape_float_t *pph, ppl_const_Rational_Box_t ph)

- int ppl_new_BD_Shape_float_from_BD_Shape_int8_t (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_int16_t (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_int32_t (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_int64_t (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_mpz_class (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_mpq_class (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int8_t (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int16_t (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int32_t (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int64_t (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_float_from_C_Polyhedron (ppl_BD_Shape_float_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_float_from_NNC_Polyhedron (ppl_BD_Shape_float_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_float_from_Grid (ppl_BD_Shape_float_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_float_from_Float_Box (ppl_BD_Shape_float_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_float (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_float (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_float_from_Double_Box (ppl_BD_Shape_float_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_double (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_double (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_float_from_Long_Double_Box (ppl_BD_Shape_float_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_float_from_BD_Shape_long_double (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_long_double (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_float_from_Int8_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Int16_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Int16_Box_t ph, int complexity)

- int ppl_new_BD_Shape_float_from_Int32_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Int64_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Uint8_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Uint16_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Uint32_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Uint64_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Z_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Rational_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_C_Polyhedron_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Grid_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Float_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_float_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)

- int ppl_new_BD_Shape_float_from_Double_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_double_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Long_Double_Box_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_float_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_float_from_Constraint_System (ppl_BD_Shape_float_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_float_from_Congruence_System (ppl_BD_Shape_float_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_float_from_Generator_System (ppl_BD_Shape_float_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_float_space_dimension (ppl_const_BD_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_float_affine_dimension (ppl_const_BD_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_float_relation_with_Constraint (ppl_const_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_float_relation_with_Generator (ppl_const_BD_Shape_float_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_float_relation_with_Congruence (ppl_const_BD_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_float_get_constraints (ppl_const_BD_Shape_float_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_float_get_congruences (ppl_const_BD_Shape_float_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_float_get_minimized_constraints (ppl_const_BD_Shape_float_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_float_get_minimized_congruences (ppl_const_BD_Shape_float_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_float_is_empty (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_is_universe (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_is_bounded (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_contains_integer_point (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_is_topologically_closed (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_is_discrete (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_topological_closure_assign (ppl_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_bounds_from_above (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_float_bounds_from_below (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_float_maximize (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_float_minimize (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)

- int ppl_BD_Shape_float_maximize_with_point (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_float_minimize_with_point (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_float_frequency (ppl_const_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_float_contains_BD_Shape_float (ppl_const_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_strictly_contains_BD_Shape_float (ppl_const_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_is_disjoint_from_BD_Shape_float (ppl_const_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_equals_BD_Shape_float (ppl_const_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_OK (ppl_const_BD_Shape_float_t ph)
- int ppl_BD_Shape_float_add_constraint (ppl_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_float_add_congruence (ppl_BD_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_float_add_constraints (ppl_BD_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_float_add_congruences (ppl_BD_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_float_refine_with_constraint (ppl_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_float_refine_with_congruence (ppl_BD_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_float_refine_with_constraints (ppl_BD_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_float_refine_with_congruences (ppl_BD_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_float_intersection_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_upper_bound_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_difference_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_concatenate_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_time_elapse_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_upper_bound_assign_if_exact (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_simplify_using_context_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_constrains (ppl_BD_Shape_float_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_float_unconstrain_space_dimension (ppl_BD_Shape_float_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_float_unconstrain_space_dimensions (ppl_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_BD_Shape_float_affine_image (ppl_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_affine_preimage (ppl_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_bounded_affine_image (ppl_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_bounded_affine_preimage (ppl_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_generalized_affine_image (ppl_BD_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_generalized_affine_preimage (ppl_BD_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_float_generalized_affine_image_lhs_rhs (ppl_BD_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_float_add_space_dimensions_and_embed (ppl_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_float_add_space_dimensions_and_project (ppl_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_float_remove_space_dimensions (ppl_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_float_remove_higher_space_dimensions (ppl_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_float_expand_space_dimension (ppl_BD_Shape_float_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_float_fold_space_dimensions (ppl_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_float_map_space_dimensions (ppl_BD_Shape_float_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_float_drop_some_non_integer_points (ppl_BD_Shape_float_t ph, int complexity)
- int ppl_BD_Shape_float_drop_some_non_integer_points_2 (ppl_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_float_external_memory_in_bytes (ppl_const_BD_Shape_float_t ps, size_t ∗sz)
- int ppl_BD_Shape_float_total_memory_in_bytes (ppl_const_BD_Shape_float_t ps, size_t ∗sz)
- int ppl_BD_Shape_float_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, unsigned ∗tp)
- int ppl_BD_Shape_float_H79_widening_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, unsigned ∗tp)
- int ppl_BD_Shape_float_BHMZ05_widening_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_H79_widening_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_widening_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, unsigned ∗tp)

- int ppl_BD_Shape_float_widening_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_float_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_float_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_float_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_float_limited_H79_extrapolation_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_float_limited_CC76_extrapolation_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_float_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, unsigned *tp)
- int ppl_BD_Shape_float_CC76_extrapolation_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_CC76_narrowing_assign (ppl_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y)
- int ppl_BD_Shape_float_linear_partition (ppl_const_BD_Shape_float_t x, ppl_const_BD_Shape_float_t y, ppl_BD_Shape_float_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_float_wrap_assign (ppl_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_float_recycle_Constraint_System (ppl_BD_Shape_float_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_float_recycle_Congruence_System (ppl_BD_Shape_float_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_float_recycle_Generator_System (ppl_BD_Shape_float_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_float_from_BD_Shape_float (ppl_BD_Shape_float_t dst, ppl_const_BD_Shape_float_t src)
- int ppl_BD_Shape_float_add_recycled_constraints (ppl_BD_Shape_float_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_float_add_recycled_congruences (ppl_BD_Shape_float_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_float (ppl_const_BD_Shape_float_t pset)
- int ppl_termination_test_PR_BD_Shape_float (ppl_const_BD_Shape_float_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_float (ppl_const_BD_Shape_float_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_float (ppl_const_BD_Shape_float_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_float (ppl_const_BD_Shape_float_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_float (ppl_const_BD_Shape_float_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_before, ppl_const_BD_Shape_float_t pset_after)
- int ppl_termination_test_PR_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_before, ppl_const_BD_Shape_float_t pset_after)

- int ppl_one_affine_ranking_function_MS_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_-before, ppl_const_BD_Shape_float_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_-before, ppl_const_BD_Shape_float_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_-before, ppl_const_BD_Shape_float_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_float_2 (ppl_const_BD_Shape_float_t pset_-before, ppl_const_BD_Shape_float_t pset_after, ppl_Polyhedron_t ph)

10.6.1 Detailed Description

Types and functions for ppl_BD_Shape_float_tag.

10.6.2 Friends And Related Function Documentation

10.6.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.6.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_float_2 (ppl_const_BD_Shape_-float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.6.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.6.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_float_2 (ppl_const_BD_Shape_-float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.6.2.5 int ppl_assign_BD_Shape_float_from_BD_Shape_float (ppl_BD_Shape_float_t *dst*, ppl_const_BD_Shape_float_t *src*) `[related]`

10.6.2.6 int ppl_BD_Shape_float_add_congruence (ppl_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.6.2.7 int ppl_BD_Shape_float_add_congruences (ppl_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.6.2.8 int ppl_BD_Shape_float_add_constraint (ppl_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.6.2.9 int ppl_BD_Shape_float_add_constraints (ppl_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.6.2.10 int ppl_BD_Shape_float_add_recycled_congruences (ppl_BD_Shape_float_t *ph*, ppl_Congruence_System_t *cs*) `[related]`

10.6.2.11 int ppl_BD_Shape_float_add_recycled_constraints (ppl_BD_Shape_float_t *ph*, ppl_Constraint_System_t *cs*) `[related]`

10.6.2.12 int ppl_BD_Shape_float_add_space_dimensions_and_embed (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *d*) `[related]`

10.6.2.13 int ppl_BD_Shape_float_add_space_dimensions_and_project (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *d*) `[related]`

10.6.2.14 int ppl_BD_Shape_float_affine_dimension (ppl_const_BD_Shape_float_t *ph*, ppl_dimension_type ∗ *m*) `[related]`

10.6.2.15 int ppl_BD_Shape_float_affine_image (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.6.2.16 int ppl_BD_Shape_float_affine_preimage (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.6.2.17 int ppl_BD_Shape_float_BHMZ05_widening_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.18 int ppl_BD_Shape_float_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, unsigned * *tp*) [related]

10.6.2.19 int ppl_BD_Shape_float_bounded_affine_image (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.6.2.20 int ppl_BD_Shape_float_bounded_affine_preimage (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.6.2.21 int ppl_BD_Shape_float_bounds_from_above (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.6.2.22 int ppl_BD_Shape_float_bounds_from_below (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.6.2.23 int ppl_BD_Shape_float_CC76_extrapolation_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.24 int ppl_BD_Shape_float_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, unsigned * *tp*) [related]

10.6.2.25 int ppl_BD_Shape_float_CC76_narrowing_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.26 int ppl_BD_Shape_float_concatenate_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.27 int ppl_BD_Shape_float_constrains (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.6.2.28 int ppl_BD_Shape_float_contains_BD_Shape_float (ppl_const_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.29 int ppl_BD_Shape_float_contains_integer_point (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.30 int ppl_BD_Shape_float_difference_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.31 int ppl_BD_Shape_float_drop_some_non_integer_points (ppl_BD_Shape_float_t *ph*, int *complexity*) [related]

10.6.2.32 int ppl_BD_Shape_float_drop_some_non_integer_points_2 (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.6.2.33 int ppl_BD_Shape_float_equals_BD_Shape_float (ppl_const_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.34 int ppl_BD_Shape_float_expand_space_dimension (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.6.2.35 int ppl_BD_Shape_float_external_memory_in_bytes (ppl_const_BD_Shape_float_t *ps*, size_t * *sz*) [related]

10.6.2.36 int ppl_BD_Shape_float_fold_space_dimensions (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.6.2.37 int ppl_BD_Shape_float_frequency (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.6.2.38 int ppl_BD_Shape_float_generalized_affine_image (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.6.2.39 int ppl_BD_Shape_float_generalized_affine_image_lhs_rhs (ppl_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.6.2.40 int ppl_BD_Shape_float_generalized_affine_preimage (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.6.2.41 int ppl_BD_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.6.2.42 int ppl_BD_Shape_float_get_congruences (ppl_const_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.6.2.43 int ppl_BD_Shape_float_get_constraints (ppl_const_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.6.2.44 int ppl_BD_Shape_float_get_minimized_congruences (ppl_const_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.6.2.45 int ppl_BD_Shape_float_get_minimized_constraints (ppl_const_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.6.2.46 int ppl_BD_Shape_float_H79_widening_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.47 int ppl_BD_Shape_float_H79_widening_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, unsigned * *tp*) [related]

10.6.2.48 int ppl_BD_Shape_float_intersection_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.49 int ppl_BD_Shape_float_is_bounded (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.50 int ppl_BD_Shape_float_is_discrete (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.51 int ppl_BD_Shape_float_is_disjoint_from_BD_Shape_float (ppl_const_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.52 int ppl_BD_Shape_float_is_empty (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.53 int ppl_BD_Shape_float_is_topologically_closed (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.54 int ppl_BD_Shape_float_is_universe (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.55 int ppl_BD_Shape_float_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.6.2.56 int ppl_BD_Shape_float_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.6.2.57 int ppl_BD_Shape_float_limited_CC76_extrapolation_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.6.2.58 int ppl_BD_Shape_float_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.6.2.59 int ppl_BD_Shape_float_limited_H79_extrapolation_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.6.2.60 int ppl_BD_Shape_float_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.6.2.61 int ppl_BD_Shape_float_linear_partition (ppl_const_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, ppl_BD_Shape_float_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) `[related]`

10.6.2.62 int ppl_BD_Shape_float_map_space_dimensions (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) `[related]`

10.6.2.63 int ppl_BD_Shape_float_maximize (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.6.2.64 int ppl_BD_Shape_float_maximize_with_point (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.6.2.65 int ppl_BD_Shape_float_minimize (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.6.2.66 int ppl_BD_Shape_float_minimize_with_point (ppl_const_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.6.2.67 int ppl_BD_Shape_float_OK (ppl_const_BD_Shape_float_t *ph*) `[related]`

10.6.2.68 int ppl_BD_Shape_float_refine_with_congruence (ppl_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.6.2.69 int ppl_BD_Shape_float_refine_with_congruences (ppl_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.6.2.70 int ppl_BD_Shape_float_refine_with_constraint (ppl_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.6.2.71 int ppl_BD_Shape_float_refine_with_constraints (ppl_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.6.2.72 int ppl_BD_Shape_float_relation_with_Congruence (ppl_const_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.6.2.73 int ppl_BD_Shape_float_relation_with_Constraint (ppl_const_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.6.2.74 int ppl_BD_Shape_float_relation_with_Generator (ppl_const_BD_Shape_float_t *ph*, ppl_const_Generator_t *c*) [related]

10.6.2.75 int ppl_BD_Shape_float_remove_higher_space_dimensions (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.6.2.76 int ppl_BD_Shape_float_remove_space_dimensions (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.6.2.77 int ppl_BD_Shape_float_simplify_using_context_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) [related]

10.6.2.78 int ppl_BD_Shape_float_space_dimension (ppl_const_BD_Shape_float_t *ph*, ppl_dimension_type * *m*) [related]

10.6.2.79 int ppl_BD_Shape_float_strictly_contains_BD_Shape_float (ppl_const_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) `[related]`

10.6.2.80 int ppl_BD_Shape_float_time_elapse_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) `[related]`

10.6.2.81 int ppl_BD_Shape_float_topological_closure_assign (ppl_BD_Shape_float_t *ph*) `[related]`

10.6.2.82 int ppl_BD_Shape_float_total_memory_in_bytes (ppl_const_BD_Shape_float_t *ps*, size_t * *sz*) `[related]`

10.6.2.83 int ppl_BD_Shape_float_unconstrain_space_dimension (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *var*) `[related]`

10.6.2.84 int ppl_BD_Shape_float_unconstrain_space_dimensions (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.6.2.85 int ppl_BD_Shape_float_upper_bound_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) `[related]`

10.6.2.86 int ppl_BD_Shape_float_upper_bound_assign_if_exact (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) `[related]`

10.6.2.87 int ppl_BD_Shape_float_widening_assign (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*) `[related]`

10.6.2.88 int ppl_BD_Shape_float_widening_assign_with_tokens (ppl_BD_Shape_float_t *x*, ppl_const_BD_Shape_float_t *y*, unsigned ∗ *tp*) [related]

10.6.2.89 int ppl_BD_Shape_float_wrap_assign (ppl_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.6.2.90 int ppl_delete_BD_Shape_float (ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.91 int ppl_new_BD_Shape_float_from_BD_Shape_double (ppl_BD_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.6.2.92 int ppl_new_BD_Shape_float_from_BD_Shape_double_with_complexity (ppl_BD_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.6.2.93 int ppl_new_BD_Shape_float_from_BD_Shape_float (ppl_BD_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.6.2.94 int ppl_new_BD_Shape_float_from_BD_Shape_float_with_complexity (ppl_BD_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.6.2.95 int ppl_new_BD_Shape_float_from_BD_Shape_int16_t (ppl_BD_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.6.2.96 int ppl_new_BD_Shape_float_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.6.2.97 int ppl_new_BD_Shape_float_from_BD_Shape_int32_t (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.6.2.98 int ppl_new_BD_Shape_float_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.6.2.99 int ppl_new_BD_Shape_float_from_BD_Shape_int64_t (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.6.2.100 int ppl_new_BD_Shape_float_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.6.2.101 int ppl_new_BD_Shape_float_from_BD_Shape_int8_t (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.6.2.102 int ppl_new_BD_Shape_float_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.6.2.103 int ppl_new_BD_Shape_float_from_BD_Shape_long_double (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.6.2.104 int ppl_new_BD_Shape_float_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.6.2.105 int ppl_new_BD_Shape_float_from_BD_Shape_mpq_class (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.6.2.106 int ppl_new_BD_Shape_float_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.6.2.107 int ppl_new_BD_Shape_float_from_BD_Shape_mpz_class (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.6.2.108 int ppl_new_BD_Shape_float_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.6.2.109 int ppl_new_BD_Shape_float_from_C_Polyhedron (ppl_BD_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.6.2.110 int ppl_new_BD_Shape_float_from_C_Polyhedron_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.6.2.111 int ppl_new_BD_Shape_float_from_Congruence_System (ppl_BD_Shape_float_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.6.2.112 int ppl_new_BD_Shape_float_from_Constraint_System (ppl_BD_Shape_float_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.6.2.113 int ppl_new_BD_Shape_float_from_Double_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.6.2.114 int ppl_new_BD_Shape_float_from_Double_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.6.2.115 int ppl_new_BD_Shape_float_from_Float_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.6.2.116 int ppl_new_BD_Shape_float_from_Float_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.6.2.117 int ppl_new_BD_Shape_float_from_Generator_System (ppl_BD_Shape_float_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.6.2.118 int ppl_new_BD_Shape_float_from_Grid (ppl_BD_Shape_float_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.6.2.119 int ppl_new_BD_Shape_float_from_Grid_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.6.2.120 int ppl_new_BD_Shape_float_from_Int16_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.6.2.121 int ppl_new_BD_Shape_float_from_Int16_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.6.2.122 int ppl_new_BD_Shape_float_from_Int32_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.6.2.123 int ppl_new_BD_Shape_float_from_Int32_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.6.2.124 int ppl_new_BD_Shape_float_from_Int64_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.6.2.125 int ppl_new_BD_Shape_float_from_Int64_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.6.2.126 int ppl_new_BD_Shape_float_from_Int8_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.6.2.127 int ppl_new_BD_Shape_float_from_Int8_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.6.2.128 int ppl_new_BD_Shape_float_from_Long_Double_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.6.2.129 int ppl_new_BD_Shape_float_from_Long_Double_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.6.2.130 int ppl_new_BD_Shape_float_from_NNC_Polyhedron (ppl_BD_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.6.2.131 int ppl_new_BD_Shape_float_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.6.2.132 int ppl_new_BD_Shape_float_from_Octagonal_Shape_double (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.6.2.133 int ppl_new_BD_Shape_float_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.6.2.134 int ppl_new_BD_Shape_float_from_Octagonal_Shape_float (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.6.2.135 int ppl_new_BD_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.6.2.136 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int16_t (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.6.2.137 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.6.2.138 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int32_t (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.6.2.139 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.6.2.140 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int64_t (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.6.2.141 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.6.2.142 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int8_t (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.6.2.143 int ppl_new_BD_Shape_float_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.6.2.144 int ppl_new_BD_Shape_float_from_Octagonal_Shape_long_double (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.6.2.145 int ppl_new_BD_Shape_float_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.6.2.146 int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.6.2.147 int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.6.2.148 int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.6.2.149 int ppl_new_BD_Shape_float_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.6.2.150 int ppl_new_BD_Shape_float_from_Rational_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.6.2.151 int ppl_new_BD_Shape_float_from_Rational_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.6.2.152 int ppl_new_BD_Shape_float_from_space_dimension (ppl_BD_Shape_float_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.6.2.153 int ppl_new_BD_Shape_float_from_Uint16_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.6.2.154 int ppl_new_BD_Shape_float_from_Uint16_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.6.2.155 int ppl_new_BD_Shape_float_from_Uint32_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.6.2.156 int ppl_new_BD_Shape_float_from_Uint32_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.6.2.157 int ppl_new_BD_Shape_float_from_Uint64_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.6.2.158 int ppl_new_BD_Shape_float_from_Uint64_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.6.2.159 int ppl_new_BD_Shape_float_from_Uint8_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.6.2.160 int ppl_new_BD_Shape_float_from_Uint8_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.6.2.161 int ppl_new_BD_Shape_float_from_Z_Box (ppl_BD_Shape_float_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.6.2.162 int ppl_new_BD_Shape_float_from_Z_Box_with_complexity (ppl_BD_Shape_float_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.6.2.163 int ppl_new_BD_Shape_float_recycle_Congruence_System (ppl_BD_Shape_float_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.6.2.164 int ppl_new_BD_Shape_float_recycle_Constraint_System (ppl_BD_Shape_float_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.6.2.165 int ppl_new_BD_Shape_float_recycle_Generator_System (ppl_BD_Shape_float_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.6.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*, ppl_Generator_t *point*) [related]

10.6.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_float_2 (ppl_const_BD_Shape_float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*, ppl_Generator_t *point*) [related]

10.6.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*, ppl_Generator_t *point*) [related]

10.6.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_float_2 (ppl_const_BD_Shape_float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*, ppl_Generator_t *point*) [related]

10.6.2.170 int ppl_termination_test_MS_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*) [related]

10.6.2.171 int ppl_termination_test_MS_BD_Shape_float_2 (ppl_const_BD_Shape_float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*) [related]

10.6.2.172 int ppl_termination_test_PR_BD_Shape_float (ppl_const_BD_Shape_float_t *pset*) [related]

10.6.2.173 int ppl_termination_test_PR_BD_Shape_float_2 (ppl_const_BD_Shape_float_t *pset_before*, ppl_const_BD_Shape_float_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.7 ppl_BD_Shape_int16_t_tag Interface Reference

Types and functions for ppl_BD_Shape_int16_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_space_dimension (ppl_BD_Shape_int16_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_int16_t_from_Int8_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Int16_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Int32_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Int64_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Uint8_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Uint16_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Uint32_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Uint64_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Z_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_Rational_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int8_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int32_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int64_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int16_t_from_C_Polyhedron (ppl_BD_Shape_int16_t_t *pph, ppl_const_-Polyhedron_t ph)
- int ppl_new_BD_Shape_int16_t_from_NNC_Polyhedron (ppl_BD_Shape_int16_t_t *pph, ppl_-const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int16_t_from_Grid (ppl_BD_Shape_int16_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_int16_t_from_Float_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_-Float_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_float (ppl_BD_Shape_int16_t_t *pph, ppl_-const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_float (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_int16_t_from_Double_Box (ppl_BD_Shape_int16_t_t *pph, ppl_const_-Double_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_double (ppl_BD_Shape_int16_t_t *pph, ppl_-const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_double (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_int16_t_from_Long_Double_Box (ppl_BD_Shape_int16_t_t *pph, ppl_-const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_long_double (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int16_t_-t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int16_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int16_t_-t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int16_t_-t *pph, ppl_const_Uint32_Box_t ph, int complexity)

- int ppl_new_BD_Shape_int16_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Z_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Grid_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Float_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Double_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_int16_t_from_Constraint_System (ppl_BD_Shape_int16_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_int16_t_from_Congruence_System (ppl_BD_Shape_int16_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_int16_t_from_Generator_System (ppl_BD_Shape_int16_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_int16_t_space_dimension (ppl_const_BD_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int16_t_affine_dimension (ppl_const_BD_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int16_t_relation_with_Constraint (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int16_t_relation_with_Generator (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_int16_t_relation_with_Congruence (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int16_t_get_constraints (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int16_t_get_congruences (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int16_t_get_minimized_constraints (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int16_t_get_minimized_congruences (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int16_t_is_empty (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_is_universe (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_is_bounded (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_contains_integer_point (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_is_topologically_closed (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_is_discrete (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_topological_closure_assign (ppl_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_bounds_from_above (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int16_t_bounds_from_below (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int16_t_maximize (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int16_t_minimize (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int16_t_maximize_with_point (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int16_t_minimize_with_point (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int16_t_frequency (ppl_const_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_int16_t_contains_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)

- int ppl_BD_Shape_int16_t_strictly_contains_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_is_disjoint_from_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_equals_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_OK (ppl_const_BD_Shape_int16_t_t ph)
- int ppl_BD_Shape_int16_t_add_constraint (ppl_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int16_t_add_congruence (ppl_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int16_t_add_constraints (ppl_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_add_congruences (ppl_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int16_t_refine_with_constraint (ppl_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int16_t_refine_with_congruence (ppl_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int16_t_refine_with_constraints (ppl_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_refine_with_congruences (ppl_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int16_t_intersection_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_upper_bound_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_difference_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_concatenate_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_time_elapse_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_upper_bound_assign_if_exact (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_simplify_using_context_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_constrains (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int16_t_unconstrain_space_dimension (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int16_t_unconstrain_space_dimensions (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int16_t_affine_image (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int16_t_affine_preimage (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int16_t_bounded_affine_image (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int16_t_bounded_affine_preimage (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_int16_t_generalized_affine_image (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int16_t_generalized_affine_preimage (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int16_t_add_space_dimensions_and_embed (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int16_t_add_space_dimensions_and_project (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int16_t_remove_space_dimensions (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int16_t_remove_higher_space_dimensions (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int16_t_expand_space_dimension (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_int16_t_fold_space_dimensions (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_int16_t_map_space_dimensions (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_int16_t_drop_some_non_integer_points (ppl_BD_Shape_int16_t_t ph, int complexity)
- int ppl_BD_Shape_int16_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_int16_t_external_memory_in_bytes (ppl_const_BD_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int16_t_total_memory_in_bytes (ppl_const_BD_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int16_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int16_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int16_t_BHMZ05_widening_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_H79_widening_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int16_t_widening_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int16_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_int16_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_int16_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, unsigned *tp)
- int ppl_BD_Shape_int16_t_CC76_extrapolation_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_CC76_narrowing_assign (ppl_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y)
- int ppl_BD_Shape_int16_t_linear_partition (ppl_const_BD_Shape_int16_t_t x, ppl_const_BD_Shape_int16_t_t y, ppl_BD_Shape_int16_t_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_int16_t_wrap_assign (ppl_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_int16_t_recycle_Constraint_System (ppl_BD_Shape_int16_t_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_int16_t_recycle_Congruence_System (ppl_BD_Shape_int16_t_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_int16_t_recycle_Generator_System (ppl_BD_Shape_int16_t_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_BD_Shape_int16_t_t dst, ppl_const_BD_Shape_int16_t_t src)
- int ppl_BD_Shape_int16_t_add_recycled_constraints (ppl_BD_Shape_int16_t_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_int16_t_add_recycled_congruences (ppl_BD_Shape_int16_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset)
- int ppl_termination_test_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after)
- int ppl_termination_test_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after, ppl_Generator_t point)

- int ppl_all_affine_ranking_functions_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t pset_before, ppl_const_BD_Shape_int16_t_t pset_after, ppl_Polyhedron_t ph)

10.7.1 Detailed Description

Types and functions for ppl_BD_Shape_int16_t_tag.

10.7.2 Friends And Related Function Documentation

10.7.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.7.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.7.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.7.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.7.2.5 int ppl_assign_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_BD_Shape_int16_t_t *dst*, ppl_const_BD_Shape_int16_t_t *src*) [related]

10.7.2.6 int ppl_BD_Shape_int16_t_add_congruence (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.7.2.7 int ppl_BD_Shape_int16_t_add_congruences (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.7.2.8 int ppl_BD_Shape_int16_t_add_constraint (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.7.2.9 int ppl_BD_Shape_int16_t_add_constraints (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.10 int ppl_BD_Shape_int16_t_add_recycled_congruences (ppl_BD_Shape_int16_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.7.2.11 int ppl_BD_Shape_int16_t_add_recycled_constraints (ppl_BD_Shape_int16_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.7.2.12 int ppl_BD_Shape_int16_t_add_space_dimensions_and_embed (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.7.2.13 int ppl_BD_Shape_int16_t_add_space_dimensions_and_project (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.7.2.14 int ppl_BD_Shape_int16_t_affine_dimension (ppl_const_BD_Shape_int16_t_t *ph*, ppl_dimension_type * *m*) [related]

10.7.2.15 int ppl_BD_Shape_int16_t_affine_image (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.7.2.16 int ppl_BD_Shape_int16_t_affine_preimage (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.7.2.17 int ppl_BD_Shape_int16_t_BHMZ05_widening_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.18 int ppl_BD_Shape_int16_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, unsigned ∗ *tp*) [related]

10.7.2.19 int ppl_BD_Shape_int16_t_bounded_affine_image (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.7.2.20 int ppl_BD_Shape_int16_t_bounded_affine_preimage (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.7.2.21 int ppl_BD_Shape_int16_t_bounds_from_above (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.7.2.22 int ppl_BD_Shape_int16_t_bounds_from_below (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.7.2.23 int ppl_BD_Shape_int16_t_CC76_extrapolation_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.24 int ppl_BD_Shape_int16_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, unsigned ∗ *tp*) [related]

10.7.2.25 int ppl_BD_Shape_int16_t_CC76_narrowing_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.26 int ppl_BD_Shape_int16_t_concatenate_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.27 int ppl_BD_Shape_int16_t_constrains (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.7.2.28 int ppl_BD_Shape_int16_t_contains_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.29 int ppl_BD_Shape_int16_t_contains_integer_point (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.30 int ppl_BD_Shape_int16_t_difference_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.31 int ppl_BD_Shape_int16_t_drop_some_non_integer_points (ppl_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.7.2.32 int ppl_BD_Shape_int16_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.7.2.33 int ppl_BD_Shape_int16_t_equals_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.34 int ppl_BD_Shape_int16_t_expand_space_dimension (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.7.2.35 int ppl_BD_Shape_int16_t_external_memory_in_bytes (ppl_const_BD_Shape_int16_t_t *ps*, size_t ∗ *sz*) [related]

10.7.2.36 int ppl_BD_Shape_int16_t_fold_space_dimensions (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.7.2.37 int ppl_BD_Shape_int16_t_frequency (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.7.2.38 int ppl_BD_Shape_int16_t_generalized_affine_image (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.7.2.39 int ppl_BD_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.7.2.40 int ppl_BD_Shape_int16_t_generalized_affine_preimage (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.7.2.41 int ppl_BD_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.7.2.42 int ppl_BD_Shape_int16_t_get_congruences (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.7.2.43 int ppl_BD_Shape_int16_t_get_constraints (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.7.2.44 int ppl_BD_Shape_int16_t_get_minimized_congruences (ppl_const_-BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.7.2.45 int ppl_BD_Shape_int16_t_get_minimized_constraints (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.7.2.46 int ppl_BD_Shape_int16_t_H79_widening_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.47 int ppl_BD_Shape_int16_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, unsigned * *tp*) [related]

10.7.2.48 int ppl_BD_Shape_int16_t_intersection_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.49 int ppl_BD_Shape_int16_t_is_bounded (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.50 int ppl_BD_Shape_int16_t_is_discrete (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.51 int ppl_BD_Shape_int16_t_is_disjoint_from_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.52 int ppl_BD_Shape_int16_t_is_empty (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.53 int ppl_BD_Shape_int16_t_is_topologically_closed (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.54 int ppl_BD_Shape_int16_t_is_universe (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.55 int ppl_BD_Shape_int16_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_-int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.56 int ppl_BD_Shape_int16_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.7.2.57 int ppl_BD_Shape_int16_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_-int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.58 int ppl_BD_Shape_int16_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.7.2.59 int ppl_BD_Shape_int16_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.60 int ppl_BD_Shape_int16_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.7.2.61 int ppl_BD_Shape_int16_t_linear_partition (ppl_const_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, ppl_BD_Shape_int16_t_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.7.2.62 int ppl_BD_Shape_int16_t_map_space_dimensions (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.7.2.63 int ppl_BD_Shape_int16_t_maximize (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.7.2.64 int ppl_BD_Shape_int16_t_maximize_with_point (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.7.2.65 int ppl_BD_Shape_int16_t_minimize (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.7.2.66 int ppl_BD_Shape_int16_t_minimize_with_point (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.7.2.67 int ppl_BD_Shape_int16_t_OK (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.68 int ppl_BD_Shape_int16_t_refine_with_congruence (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.7.2.69 int ppl_BD_Shape_int16_t_refine_with_congruences (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.7.2.70 int ppl_BD_Shape_int16_t_refine_with_constraint (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.7.2.71 int ppl_BD_Shape_int16_t_refine_with_constraints (ppl_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.72 int ppl_BD_Shape_int16_t_relation_with_Congruence (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.7.2.73 int ppl_BD_Shape_int16_t_relation_with_Constraint (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.7.2.74 int ppl_BD_Shape_int16_t_relation_with_Generator (ppl_const_BD_Shape_int16_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.7.2.75 int ppl_BD_Shape_int16_t_remove_higher_space_dimensions (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.7.2.76 int ppl_BD_Shape_int16_t_remove_space_dimensions (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.7.2.77 int ppl_BD_Shape_int16_t_simplify_using_context_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.78 int ppl_BD_Shape_int16_t_space_dimension (ppl_const_BD_Shape_int16_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.7.2.79 int ppl_BD_Shape_int16_t_strictly_contains_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.80 int ppl_BD_Shape_int16_t_time_elapse_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.81 int ppl_BD_Shape_int16_t_topological_closure_assign (ppl_BD_Shape_int16_t_t *ph*) [related]

10.7.2.82 int ppl_BD_Shape_int16_t_total_memory_in_bytes (ppl_const_BD_Shape_int16_t_t *ps*, size_t * *sz*) [related]

10.7.2.83 int ppl_BD_Shape_int16_t_unconstrain_space_dimension (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.7.2.84 int ppl_BD_Shape_int16_t_unconstrain_space_dimensions (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.7.2.85 int ppl_BD_Shape_int16_t_upper_bound_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.86 int ppl_BD_Shape_int16_t_upper_bound_assign_if_exact (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.87 int ppl_BD_Shape_int16_t_widening_assign (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*) [related]

10.7.2.88 int ppl_BD_Shape_int16_t_widening_assign_with_tokens (ppl_BD_Shape_int16_t_t *x*, ppl_const_BD_Shape_int16_t_t *y*, unsigned * *tp*) [related]

10.7.2.89 int ppl_BD_Shape_int16_t_wrap_assign (ppl_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.7.2.90 int ppl_delete_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.91 int ppl_new_BD_Shape_int16_t_from_BD_Shape_double (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.7.2.92 int ppl_new_BD_Shape_int16_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.7.2.93 int ppl_new_BD_Shape_int16_t_from_BD_Shape_float (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.7.2.94 int ppl_new_BD_Shape_int16_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.7.2.95 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.7.2.96 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.7.2.97 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int32_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.7.2.98 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.7.2.99 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int64_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.7.2.100 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.7.2.101 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int8_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.7.2.102 int ppl_new_BD_Shape_int16_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.7.2.103 int ppl_new_BD_Shape_int16_t_from_BD_Shape_long_double (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.7.2.104 int ppl_new_BD_Shape_int16_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.7.2.105 int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.7.2.106 int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.7.2.107 int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.7.2.108 int ppl_new_BD_Shape_int16_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.7.2.109 int ppl_new_BD_Shape_int16_t_from_C_Polyhedron (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.7.2.110 int ppl_new_BD_Shape_int16_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.7.2.111 int ppl_new_BD_Shape_int16_t_from_Congruence_System (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.7.2.112 int ppl_new_BD_Shape_int16_t_from_Constraint_System (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.7.2.113 int ppl_new_BD_Shape_int16_t_from_Double_Box (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.7.2.114 int ppl_new_BD_Shape_int16_t_from_Double_Box_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.7.2.115 int ppl_new_BD_Shape_int16_t_from_Float_Box (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Float_Box_t *ph*) [related]

10.7.2.116 int ppl_new_BD_Shape_int16_t_from_Float_Box_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.7.2.117 int ppl_new_BD_Shape_int16_t_from_Generator_System (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Generator_System_t *cs*) [related]

10.7.2.118 int ppl_new_BD_Shape_int16_t_from_Grid (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Grid_t *ph*) [related]

10.7.2.119 int ppl_new_BD_Shape_int16_t_from_Grid_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.7.2.120 int ppl_new_BD_Shape_int16_t_from_Int16_Box (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.7.2.121 int ppl_new_BD_Shape_int16_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.7.2.122 int ppl_new_BD_Shape_int16_t_from_Int32_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.7.2.123 int ppl_new_BD_Shape_int16_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.7.2.124 int ppl_new_BD_Shape_int16_t_from_Int64_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.7.2.125 int ppl_new_BD_Shape_int16_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.7.2.126 int ppl_new_BD_Shape_int16_t_from_Int8_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.7.2.127 int ppl_new_BD_Shape_int16_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.7.2.128 int ppl_new_BD_Shape_int16_t_from_Long_Double_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.7.2.129 int ppl_new_BD_Shape_int16_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.7.2.130 int ppl_new_BD_Shape_int16_t_from_NNC_Polyhedron (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.7.2.131 int ppl_new_BD_Shape_int16_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.7.2.132 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_double (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.7.2.133 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.7.2.134 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_float (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.7.2.135 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.7.2.136 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.7.2.137 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.7.2.138 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.7.2.139 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.7.2.140 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.7.2.141 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.7.2.142 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.7.2.143 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.7.2.144 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.7.2.145 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.7.2.146 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int16_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.7.2.147 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.7.2.148 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.7.2.149 int ppl_new_BD_Shape_int16_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.7.2.150 int ppl_new_BD_Shape_int16_t_from_Rational_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.7.2.151 int ppl_new_BD_Shape_int16_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.7.2.152 int ppl_new_BD_Shape_int16_t_from_space_dimension (ppl_BD_Shape_int16_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.7.2.153 int ppl_new_BD_Shape_int16_t_from_Uint16_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.7.2.154 int ppl_new_BD_Shape_int16_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.7.2.155 int ppl_new_BD_Shape_int16_t_from_Uint32_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.7.2.156 int ppl_new_BD_Shape_int16_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.7.2.157 int ppl_new_BD_Shape_int16_t_from_Uint64_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.7.2.158 int ppl_new_BD_Shape_int16_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.7.2.159 int ppl_new_BD_Shape_int16_t_from_Uint8_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.7.2.160 int ppl_new_BD_Shape_int16_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.7.2.161 int ppl_new_BD_Shape_int16_t_from_Z_Box (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.7.2.162 int ppl_new_BD_Shape_int16_t_from_Z_Box_with_complexity (ppl_BD_Shape_int16_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.7.2.163 int ppl_new_BD_Shape_int16_t_recycle_Congruence_System (ppl_BD_Shape_int16_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.7.2.164 int ppl_new_BD_Shape_int16_t_recycle_Constraint_System (ppl_BD_Shape_int16_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.7.2.165 int ppl_new_BD_Shape_int16_t_recycle_Generator_System (ppl_BD_Shape_int16_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.7.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*, ppl_Generator_t *point*) [related]

10.7.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.7.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*, ppl_Generator_t *point*) [related]

10.7.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.7.2.170 int ppl_termination_test_MS_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*) [related]

10.7.2.171 int ppl_termination_test_MS_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*) [related]

10.7.2.172 int ppl_termination_test_PR_BD_Shape_int16_t (ppl_const_BD_Shape_int16_t_t *pset*) [related]

10.7.2.173 int ppl_termination_test_PR_BD_Shape_int16_t_2 (ppl_const_BD_Shape_int16_t_t *pset_before*, ppl_const_BD_Shape_int16_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.8 ppl_BD_Shape_int32_t_tag Interface Reference

Types and functions for ppl_BD_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_space_dimension (ppl_BD_Shape_int32_t_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_int32_t_from_Int8_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Int16_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Int32_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Int64_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Uint8_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Uint16_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Uint32_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Uint64_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Z_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_Rational_Box (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int8_t (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int16_t (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int64_t (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int32_t_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int32_t_from_C_Polyhedron (ppl_BD_Shape_int32_t_t *pph, ppl_const_-Polyhedron_t ph)
- int ppl_new_BD_Shape_int32_t_from_NNC_Polyhedron (ppl_BD_Shape_int32_t_t *pph, ppl_-const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int32_t_from_Grid (ppl_BD_Shape_int32_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_int32_t_from_Float_Box (ppl_BD_Shape_int32_t_t *pph, ppl_const_-Float_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_float (ppl_BD_Shape_int32_t_t *pph, ppl_-const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_float (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_int32_t_from_Double_Box (ppl_BD_Shape_int32_t_t *pph, ppl_const_-Double_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_double (ppl_BD_Shape_int32_t_t *pph, ppl_-const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_double (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_int32_t_from_Long_Double_Box (ppl_BD_Shape_int32_t_t *pph, ppl_-const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_long_double (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int32_t_-t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int32_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int32_t_-t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int32_t_-t *pph, ppl_const_Uint32_Box_t ph, int complexity)

- int ppl_new_BD_Shape_int32_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Z_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Grid_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Float_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Double_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_long_double_with_complexity (ppl_-BD_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_int32_t_from_Constraint_System (ppl_BD_Shape_int32_t_t *pph, ppl_-const_Constraint_System_t cs)
- int ppl_new_BD_Shape_int32_t_from_Congruence_System (ppl_BD_Shape_int32_t_t *pph, ppl_-const_Congruence_System_t cs)
- int ppl_new_BD_Shape_int32_t_from_Generator_System (ppl_BD_Shape_int32_t_t *pph, ppl_-const_Generator_System_t cs)
- int ppl_BD_Shape_int32_t_space_dimension (ppl_const_BD_Shape_int32_t_t ph, ppl_dimension_-type *m)
- int ppl_BD_Shape_int32_t_affine_dimension (ppl_const_BD_Shape_int32_t_t ph, ppl_dimension_-type *m)
- int ppl_BD_Shape_int32_t_relation_with_Constraint (ppl_const_BD_Shape_int32_t_t ph, ppl_-const_Constraint_t c)
- int ppl_BD_Shape_int32_t_relation_with_Generator (ppl_const_BD_Shape_int32_t_t ph, ppl_-const_Generator_t c)
- int ppl_BD_Shape_int32_t_relation_with_Congruence (ppl_const_BD_Shape_int32_t_t ph, ppl_-const_Congruence_t c)
- int ppl_BD_Shape_int32_t_get_constraints (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Constraint_System_t *pcs)
- int ppl_BD_Shape_int32_t_get_congruences (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Congruence_System_t *pcs)
- int ppl_BD_Shape_int32_t_get_minimized_constraints (ppl_const_BD_Shape_int32_t_t ph, ppl_-const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int32_t_get_minimized_congruences (ppl_const_BD_Shape_int32_t_t ph, ppl_-const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int32_t_is_empty (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_is_universe (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_is_bounded (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_contains_integer_point (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_is_topologically_closed (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_is_discrete (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_topological_closure_assign (ppl_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_bounds_from_above (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Linear_Expression_t le)
- int ppl_BD_Shape_int32_t_bounds_from_below (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Linear_Expression_t le)
- int ppl_BD_Shape_int32_t_maximize (ppl_const_BD_Shape_int32_t_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int32_t_minimize (ppl_const_BD_Shape_int32_t_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int32_t_maximize_with_point (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_-Generator_t point)
- int ppl_BD_Shape_int32_t_minimize_with_point (ppl_const_BD_Shape_int32_t_t ph, ppl_const_-Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_-Generator_t point)
- int ppl_BD_Shape_int32_t_frequency (ppl_const_BD_Shape_int32_t_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_-Coefficient_t ext_vd)
- int ppl_BD_Shape_int32_t_contains_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t x, ppl_-const_BD_Shape_int32_t_t y)

- int ppl_BD_Shape_int32_t_strictly_contains_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_is_disjoint_from_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_equals_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_OK (ppl_const_BD_Shape_int32_t_t ph)
- int ppl_BD_Shape_int32_t_add_constraint (ppl_BD_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int32_t_add_congruence (ppl_BD_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int32_t_add_constraints (ppl_BD_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_add_congruences (ppl_BD_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int32_t_refine_with_constraint (ppl_BD_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int32_t_refine_with_congruence (ppl_BD_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int32_t_refine_with_constraints (ppl_BD_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_refine_with_congruences (ppl_BD_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int32_t_intersection_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_upper_bound_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_difference_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_concatenate_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_time_elapse_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_upper_bound_assign_if_exact (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_simplify_using_context_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_constrains (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int32_t_unconstrain_space_dimension (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int32_t_unconstrain_space_dimensions (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int32_t_affine_image (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int32_t_affine_preimage (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int32_t_bounded_affine_image (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int32_t_bounded_affine_preimage (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_int32_t_generalized_affine_image (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int32_t_generalized_affine_preimage (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int32_t_add_space_dimensions_and_embed (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int32_t_add_space_dimensions_and_project (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int32_t_remove_space_dimensions (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int32_t_remove_higher_space_dimensions (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int32_t_expand_space_dimension (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_int32_t_fold_space_dimensions (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_int32_t_map_space_dimensions (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_int32_t_drop_some_non_integer_points (ppl_BD_Shape_int32_t_t ph, int complexity)
- int ppl_BD_Shape_int32_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_int32_t_external_memory_in_bytes (ppl_const_BD_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int32_t_total_memory_in_bytes (ppl_const_BD_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int32_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int32_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int32_t_BHMZ05_widening_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_H79_widening_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int32_t_widening_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int32_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_int32_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_int32_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, unsigned *tp)
- int ppl_BD_Shape_int32_t_CC76_extrapolation_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_CC76_narrowing_assign (ppl_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y)
- int ppl_BD_Shape_int32_t_linear_partition (ppl_const_BD_Shape_int32_t_t x, ppl_const_BD_Shape_int32_t_t y, ppl_BD_Shape_int32_t_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_int32_t_wrap_assign (ppl_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_int32_t_recycle_Constraint_System (ppl_BD_Shape_int32_t_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_int32_t_recycle_Congruence_System (ppl_BD_Shape_int32_t_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_int32_t_recycle_Generator_System (ppl_BD_Shape_int32_t_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_BD_Shape_int32_t_t dst, ppl_const_BD_Shape_int32_t_t src)
- int ppl_BD_Shape_int32_t_add_recycled_constraints (ppl_BD_Shape_int32_t_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_int32_t_add_recycled_congruences (ppl_BD_Shape_int32_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset)
- int ppl_termination_test_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after)
- int ppl_termination_test_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after, ppl_Generator_t point)

- int ppl_all_affine_ranking_functions_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t pset_before, ppl_const_BD_Shape_int32_t_t pset_after, ppl_Polyhedron_t ph)

10.8.1 Detailed Description

Types and functions for ppl_BD_Shape_int32_t_tag.

10.8.2 Friends And Related Function Documentation

10.8.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.8.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.8.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.8.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.8.2.5 int ppl_assign_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_BD_Shape_int32_t_t *dst*, ppl_const_BD_Shape_int32_t_t *src*) [related]

10.8.2.6 int ppl_BD_Shape_int32_t_add_congruence (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.8.2.7 int ppl_BD_Shape_int32_t_add_congruences (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.8.2.8 int ppl_BD_Shape_int32_t_add_constraint (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.8.2.9 int ppl_BD_Shape_int32_t_add_constraints (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.10 int ppl_BD_Shape_int32_t_add_recycled_congruences (ppl_BD_Shape_int32_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.8.2.11 int ppl_BD_Shape_int32_t_add_recycled_constraints (ppl_BD_Shape_int32_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.8.2.12 int ppl_BD_Shape_int32_t_add_space_dimensions_and_embed (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.8.2.13 int ppl_BD_Shape_int32_t_add_space_dimensions_and_project (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.8.2.14 int ppl_BD_Shape_int32_t_affine_dimension (ppl_const_BD_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.8.2.15 int ppl_BD_Shape_int32_t_affine_image (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.8.2.16 int ppl_BD_Shape_int32_t_affine_preimage (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.8.2.17 int ppl_BD_Shape_int32_t_BHMZ05_widening_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.18 int ppl_BD_Shape_int32_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, unsigned * *tp*) [related]

10.8.2.19 int ppl_BD_Shape_int32_t_bounded_affine_image (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.8.2.20 int ppl_BD_Shape_int32_t_bounded_affine_preimage (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.8.2.21 int ppl_BD_Shape_int32_t_bounds_from_above (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.8.2.22 int ppl_BD_Shape_int32_t_bounds_from_below (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.8.2.23 int ppl_BD_Shape_int32_t_CC76_extrapolation_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.24 int ppl_BD_Shape_int32_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, unsigned * *tp*) [related]

10.8.2.25 int ppl_BD_Shape_int32_t_CC76_narrowing_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.26 int ppl_BD_Shape_int32_t_concatenate_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.27 int ppl_BD_Shape_int32_t_constrains (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.8.2.28 int ppl_BD_Shape_int32_t_contains_BD_Shape_int32_t (ppl_-const_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.29 int ppl_BD_Shape_int32_t_contains_integer_point (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.30 int ppl_BD_Shape_int32_t_difference_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.31 int ppl_BD_Shape_int32_t_drop_some_non_integer_points (ppl_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.8.2.32 int ppl_BD_Shape_int32_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.8.2.33 int ppl_BD_Shape_int32_t_equals_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.34 int ppl_BD_Shape_int32_t_expand_space_dimension (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.8.2.35 int ppl_BD_Shape_int32_t_external_memory_in_bytes (ppl_const_BD_Shape_int32_t_t *ps*, size_t ∗ *sz*) [related]

10.8.2.36 int ppl_BD_Shape_int32_t_fold_space_dimensions (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.8.2.37 int ppl_BD_Shape_int32_t_frequency (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.8.2.38 int ppl_BD_Shape_int32_t_generalized_affine_image (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.8.2.39 int ppl_BD_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.8.2.40 int ppl_BD_Shape_int32_t_generalized_affine_preimage (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.8.2.41 int ppl_BD_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.8.2.42 int ppl_BD_Shape_int32_t_get_congruences (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.8.2.43 int ppl_BD_Shape_int32_t_get_constraints (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.8.2.44 int ppl_BD_Shape_int32_t_get_minimized_congruences (ppl_const_-BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.8.2.45 int ppl_BD_Shape_int32_t_get_minimized_constraints (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.8.2.46 int ppl_BD_Shape_int32_t_H79_widening_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.47 int ppl_BD_Shape_int32_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, unsigned ∗ *tp*) [related]

10.8.2.48 int ppl_BD_Shape_int32_t_intersection_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.49 int ppl_BD_Shape_int32_t_is_bounded (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.50 int ppl_BD_Shape_int32_t_is_discrete (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.51 int ppl_BD_Shape_int32_t_is_disjoint_from_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.52 int ppl_BD_Shape_int32_t_is_empty (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.53 int ppl_BD_Shape_int32_t_is_topologically_closed (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.54 int ppl_BD_Shape_int32_t_is_universe (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.55 int ppl_BD_Shape_int32_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.56 int ppl_BD_Shape_int32_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.8.2.57 int ppl_BD_Shape_int32_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.58 int ppl_BD_Shape_int32_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.8.2.59 int ppl_BD_Shape_int32_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.60 int ppl_BD_Shape_int32_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.8.2.61 int ppl_BD_Shape_int32_t_linear_partition (ppl_const_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, ppl_BD_Shape_int32_t_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.8.2.62 int ppl_BD_Shape_int32_t_map_space_dimensions (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.8.2.63 int ppl_BD_Shape_int32_t_maximize (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.8.2.64 int ppl_BD_Shape_int32_t_maximize_with_point (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.8.2.65 int ppl_BD_Shape_int32_t_minimize (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.8.2.66 int ppl_BD_Shape_int32_t_minimize_with_point (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.8.2.67 int ppl_BD_Shape_int32_t_OK (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.68 int ppl_BD_Shape_int32_t_refine_with_congruence (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.8.2.69 int ppl_BD_Shape_int32_t_refine_with_congruences (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.8.2.70 int ppl_BD_Shape_int32_t_refine_with_constraint (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.8.2.71 int ppl_BD_Shape_int32_t_refine_with_constraints (ppl_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.72 int ppl_BD_Shape_int32_t_relation_with_Congruence (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.8.2.73 int ppl_BD_Shape_int32_t_relation_with_Constraint (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.8.2.74 int ppl_BD_Shape_int32_t_relation_with_Generator (ppl_const_BD_Shape_int32_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.8.2.75 int ppl_BD_Shape_int32_t_remove_higher_space_dimensions (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.8.2.76 int ppl_BD_Shape_int32_t_remove_space_dimensions (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.8.2.77 int ppl_BD_Shape_int32_t_simplify_using_context_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.78 int ppl_BD_Shape_int32_t_space_dimension (ppl_const_BD_Shape_int32_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.8.2.79 int ppl_BD_Shape_int32_t_strictly_contains_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.80 int ppl_BD_Shape_int32_t_time_elapse_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.81 int ppl_BD_Shape_int32_t_topological_closure_assign (ppl_BD_Shape_int32_t_t *ph*) [related]

10.8.2.82 int ppl_BD_Shape_int32_t_total_memory_in_bytes (ppl_const_BD_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.8.2.83 int ppl_BD_Shape_int32_t_unconstrain_space_dimension (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.8.2.84 int ppl_BD_Shape_int32_t_unconstrain_space_dimensions (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.8.2.85 int ppl_BD_Shape_int32_t_upper_bound_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.86 int ppl_BD_Shape_int32_t_upper_bound_assign_if_exact (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.87 int ppl_BD_Shape_int32_t_widening_assign (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*) [related]

10.8.2.88 int ppl_BD_Shape_int32_t_widening_assign_with_tokens (ppl_BD_Shape_int32_t_t *x*, ppl_const_BD_Shape_int32_t_t *y*, unsigned ∗ *tp*) [related]

10.8.2.89 int ppl_BD_Shape_int32_t_wrap_assign (ppl_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.8.2.90 int ppl_delete_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.91 int ppl_new_BD_Shape_int32_t_from_BD_Shape_double (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.8.2.92 int ppl_new_BD_Shape_int32_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.8.2.93 int ppl_new_BD_Shape_int32_t_from_BD_Shape_float (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.8.2.94 int ppl_new_BD_Shape_int32_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.8.2.95 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int16_t (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.8.2.96 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.8.2.97 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.8.2.98 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.8.2.99 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int64_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.8.2.100 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.8.2.101 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int8_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.8.2.102 int ppl_new_BD_Shape_int32_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.8.2.103 int ppl_new_BD_Shape_int32_t_from_BD_Shape_long_double (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.8.2.104 int ppl_new_BD_Shape_int32_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.8.2.105 int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.8.2.106 int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.8.2.107 int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.8.2.108 int ppl_new_BD_Shape_int32_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.8.2.109 int ppl_new_BD_Shape_int32_t_from_C_Polyhedron (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.8.2.110 int ppl_new_BD_Shape_int32_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.8.2.111 int ppl_new_BD_Shape_int32_t_from_Congruence_System (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.8.2.112 int ppl_new_BD_Shape_int32_t_from_Constraint_System (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.8.2.113 int ppl_new_BD_Shape_int32_t_from_Double_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.8.2.114 int ppl_new_BD_Shape_int32_t_from_Double_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.8.2.115 int ppl_new_BD_Shape_int32_t_from_Float_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.8.2.116 int ppl_new_BD_Shape_int32_t_from_Float_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.8.2.117 int ppl_new_BD_Shape_int32_t_from_Generator_System (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.8.2.118 int ppl_new_BD_Shape_int32_t_from_Grid (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.8.2.119 int ppl_new_BD_Shape_int32_t_from_Grid_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.8.2.120 int ppl_new_BD_Shape_int32_t_from_Int16_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.8.2.121 int ppl_new_BD_Shape_int32_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.8.2.122 int ppl_new_BD_Shape_int32_t_from_Int32_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.8.2.123 int ppl_new_BD_Shape_int32_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.8.2.124 int ppl_new_BD_Shape_int32_t_from_Int64_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.8.2.125 int ppl_new_BD_Shape_int32_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.8.2.126 int ppl_new_BD_Shape_int32_t_from_Int8_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.8.2.127 int ppl_new_BD_Shape_int32_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.8.2.128 int ppl_new_BD_Shape_int32_t_from_Long_Double_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.8.2.129 int ppl_new_BD_Shape_int32_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.8.2.130 int ppl_new_BD_Shape_int32_t_from_NNC_Polyhedron (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.8.2.131 int ppl_new_BD_Shape_int32_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.8.2.132 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_double (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.8.2.133 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.8.2.134 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_float (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.8.2.135 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.8.2.136 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.8.2.137 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.8.2.138 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.8.2.139 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.8.2.140 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.8.2.141 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.8.2.142 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.8.2.143 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.8.2.144 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.8.2.145 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.8.2.146 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.8.2.147 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.8.2.148 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.8.2.149 int ppl_new_BD_Shape_int32_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.8.2.150 int ppl_new_BD_Shape_int32_t_from_Rational_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.8.2.151 int ppl_new_BD_Shape_int32_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.8.2.152 int ppl_new_BD_Shape_int32_t_from_space_dimension (ppl_BD_Shape_int32_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.8.2.153 int ppl_new_BD_Shape_int32_t_from_Uint16_Box (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.8.2.154 int ppl_new_BD_Shape_int32_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int32_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.8.2.155 int ppl_new_BD_Shape_int32_t_from_Uint32_Box (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.8.2.156 int ppl_new_BD_Shape_int32_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.8.2.157 int ppl_new_BD_Shape_int32_t_from_Uint64_Box (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.8.2.158 int ppl_new_BD_Shape_int32_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.8.2.159 int ppl_new_BD_Shape_int32_t_from_Uint8_Box (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.8.2.160 int ppl_new_BD_Shape_int32_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.8.2.161 int ppl_new_BD_Shape_int32_t_from_Z_Box (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.8.2.162 int ppl_new_BD_Shape_int32_t_from_Z_Box_with_complexity (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.8.2.163 int ppl_new_BD_Shape_int32_t_recycle_Congruence_System (ppl_BD_Shape_int32_t_t ∗ *pph*, ppl_Congruence_System_t *cs*) [related]

10.8.2.164 int ppl_new_BD_Shape_int32_t_recycle_Constraint_System (ppl_BD_Shape_int32_t_t * *pph*, ppl_Constraint_System_t *cs*) `[related]`

10.8.2.165 int ppl_new_BD_Shape_int32_t_recycle_Generator_System (ppl_BD_Shape_int32_t_t * *pph*, ppl_Generator_System_t *cs*) `[related]`

10.8.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*, ppl_Generator_t *point*) `[related]`

10.8.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*, ppl_Generator_t *point*) `[related]`

10.8.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*, ppl_Generator_t *point*) `[related]`

10.8.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*, ppl_Generator_t *point*) `[related]`

10.8.2.170 int ppl_termination_test_MS_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*) `[related]`

10.8.2.171 int ppl_termination_test_MS_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*) `[related]`

10.8.2.172 int ppl_termination_test_PR_BD_Shape_int32_t (ppl_const_BD_Shape_int32_t_t *pset*) `[related]`

10.8.2.173 int ppl_termination_test_PR_BD_Shape_int32_t_2 (ppl_const_BD_Shape_int32_t_t *pset_before*, ppl_const_BD_Shape_int32_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.9 ppl_BD_Shape_int64_t_tag Interface Reference

Types and functions for ppl_BD_Shape_int64_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_space_dimension (ppl_BD_Shape_int64_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_int64_t_from_Int8_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Int16_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Int32_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Int64_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Uint8_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Uint16_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Uint32_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Uint64_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Z_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_Rational_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int8_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int16_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int32_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int64_t_from_C_Polyhedron (ppl_BD_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int64_t_from_NNC_Polyhedron (ppl_BD_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int64_t_from_Grid (ppl_BD_Shape_int64_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_int64_t_from_Float_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_float (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_float (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_int64_t_from_Double_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_double (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_double (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_int64_t_from_Long_Double_Box (ppl_BD_Shape_int64_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_long_double (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int64_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)

- int ppl_new_BD_Shape_int64_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Z_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Grid_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Float_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Double_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_int64_t_from_Constraint_System (ppl_BD_Shape_int64_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_int64_t_from_Congruence_System (ppl_BD_Shape_int64_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_int64_t_from_Generator_System (ppl_BD_Shape_int64_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_int64_t_space_dimension (ppl_const_BD_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int64_t_affine_dimension (ppl_const_BD_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int64_t_relation_with_Constraint (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int64_t_relation_with_Generator (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_int64_t_relation_with_Congruence (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int64_t_get_constraints (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int64_t_get_congruences (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int64_t_get_minimized_constraints (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int64_t_get_minimized_congruences (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int64_t_is_empty (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_is_universe (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_is_bounded (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_contains_integer_point (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_is_topologically_closed (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_is_discrete (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_topological_closure_assign (ppl_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_bounds_from_above (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int64_t_bounds_from_below (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int64_t_maximize (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int64_t_minimize (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int64_t_maximize_with_point (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int64_t_minimize_with_point (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int64_t_frequency (ppl_const_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_int64_t_contains_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)

- int ppl_BD_Shape_int64_t_strictly_contains_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_is_disjoint_from_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_equals_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_OK (ppl_const_BD_Shape_int64_t_t ph)
- int ppl_BD_Shape_int64_t_add_constraint (ppl_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int64_t_add_congruence (ppl_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int64_t_add_constraints (ppl_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_add_congruences (ppl_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int64_t_refine_with_constraint (ppl_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int64_t_refine_with_congruence (ppl_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int64_t_refine_with_constraints (ppl_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_refine_with_congruences (ppl_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_int64_t_intersection_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_upper_bound_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_difference_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_concatenate_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_time_elapse_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_upper_bound_assign_if_exact (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_simplify_using_context_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_constrains (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int64_t_unconstrain_space_dimension (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int64_t_unconstrain_space_dimensions (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int64_t_affine_image (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int64_t_affine_preimage (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int64_t_bounded_affine_image (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int64_t_bounded_affine_preimage (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_int64_t_generalized_affine_image (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int64_t_generalized_affine_preimage (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_int64_t_add_space_dimensions_and_embed (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int64_t_add_space_dimensions_and_project (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int64_t_remove_space_dimensions (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int64_t_remove_higher_space_dimensions (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_int64_t_expand_space_dimension (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_int64_t_fold_space_dimensions (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_int64_t_map_space_dimensions (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_int64_t_drop_some_non_integer_points (ppl_BD_Shape_int64_t_t ph, int complexity)
- int ppl_BD_Shape_int64_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_int64_t_external_memory_in_bytes (ppl_const_BD_Shape_int64_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int64_t_total_memory_in_bytes (ppl_const_BD_Shape_int64_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int64_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_BHMZ05_widening_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_H79_widening_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_widening_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_int64_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int64_t_CC76_extrapolation_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_CC76_narrowing_assign (ppl_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y)
- int ppl_BD_Shape_int64_t_linear_partition (ppl_const_BD_Shape_int64_t_t x, ppl_const_BD_Shape_int64_t_t y, ppl_BD_Shape_int64_t_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_BD_Shape_int64_t_wrap_assign (ppl_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_int64_t_recycle_Constraint_System (ppl_BD_Shape_int64_t_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_int64_t_recycle_Congruence_System (ppl_BD_Shape_int64_t_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_int64_t_recycle_Generator_System (ppl_BD_Shape_int64_t_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_BD_Shape_int64_t_t dst, ppl_const_BD_Shape_int64_t_t src)
- int ppl_BD_Shape_int64_t_add_recycled_constraints (ppl_BD_Shape_int64_t_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_int64_t_add_recycled_congruences (ppl_BD_Shape_int64_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset)
- int ppl_termination_test_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after)
- int ppl_termination_test_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after, ppl_Generator_t point)

- int ppl_all_affine_ranking_functions_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t pset_before, ppl_const_BD_Shape_int64_t_t pset_after, ppl_Polyhedron_t ph)

10.9.1 Detailed Description

Types and functions for ppl_BD_Shape_int64_t_tag.

10.9.2 Friends And Related Function Documentation

10.9.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.9.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.9.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.9.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.9.2.5 int ppl_assign_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_BD_Shape_int64_t_t *dst*, ppl_const_BD_Shape_int64_t_t *src*) [related]

10.9.2.6 int ppl_BD_Shape_int64_t_add_congruence (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.9.2.7 int ppl_BD_Shape_int64_t_add_congruences (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.9.2.8 int ppl_BD_Shape_int64_t_add_constraint (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.9.2.9 int ppl_BD_Shape_int64_t_add_constraints (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.9.2.10 int ppl_BD_Shape_int64_t_add_recycled_congruences (ppl_BD_Shape_int64_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.9.2.11 int ppl_BD_Shape_int64_t_add_recycled_constraints (ppl_BD_Shape_int64_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.9.2.12 int ppl_BD_Shape_int64_t_add_space_dimensions_and_embed (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.9.2.13 int ppl_BD_Shape_int64_t_add_space_dimensions_and_project (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.9.2.14 int ppl_BD_Shape_int64_t_affine_dimension (ppl_const_BD_Shape_int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.9.2.15 int ppl_BD_Shape_int64_t_affine_image (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.9.2.16 int ppl_BD_Shape_int64_t_affine_preimage (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.9.2.17 int ppl_BD_Shape_int64_t_BHMZ05_widening_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.18 int ppl_BD_Shape_int64_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, unsigned * *tp*) [related]

10.9.2.19 int ppl_BD_Shape_int64_t_bounded_affine_image (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.9.2.20 int ppl_BD_Shape_int64_t_bounded_affine_preimage (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.9.2.21 int ppl_BD_Shape_int64_t_bounds_from_above (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.9.2.22 int ppl_BD_Shape_int64_t_bounds_from_below (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.9.2.23 int ppl_BD_Shape_int64_t_CC76_extrapolation_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.24 int ppl_BD_Shape_int64_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, unsigned * *tp*) [related]

10.9.2.25 int ppl_BD_Shape_int64_t_CC76_narrowing_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.26 int ppl_BD_Shape_int64_t_concatenate_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.27 int ppl_BD_Shape_int64_t_constrains (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.9.2.28 int ppl_BD_Shape_int64_t_contains_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.29 int ppl_BD_Shape_int64_t_contains_integer_point (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.30 int ppl_BD_Shape_int64_t_difference_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.31 int ppl_BD_Shape_int64_t_drop_some_non_integer_points (ppl_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.9.2.32 int ppl_BD_Shape_int64_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.9.2.33 int ppl_BD_Shape_int64_t_equals_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.34 int ppl_BD_Shape_int64_t_expand_space_dimension (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.9.2.35 int ppl_BD_Shape_int64_t_external_memory_in_bytes (ppl_const_BD_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.9.2.36 int ppl_BD_Shape_int64_t_fold_space_dimensions (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.9.2.37 int ppl_BD_Shape_int64_t_frequency (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.9.2.38 int ppl_BD_Shape_int64_t_generalized_affine_image (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.9.2.39 int ppl_BD_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.9.2.40 int ppl_BD_Shape_int64_t_generalized_affine_preimage (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.9.2.41 int ppl_BD_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.9.2.42 int ppl_BD_Shape_int64_t_get_congruences (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.9.2.43 int ppl_BD_Shape_int64_t_get_constraints (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.9.2.44 int ppl_BD_Shape_int64_t_get_minimized_congruences (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.9.2.45 int ppl_BD_Shape_int64_t_get_minimized_constraints (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.9.2.46 int ppl_BD_Shape_int64_t_H79_widening_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.47 int ppl_BD_Shape_int64_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, unsigned ∗ *tp*) [related]

10.9.2.48 int ppl_BD_Shape_int64_t_intersection_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.49 int ppl_BD_Shape_int64_t_is_bounded (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.50 int ppl_BD_Shape_int64_t_is_discrete (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.51 int ppl_BD_Shape_int64_t_is_disjoint_from_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.52 int ppl_BD_Shape_int64_t_is_empty (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.53 int ppl_BD_Shape_int64_t_is_topologically_closed (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.54 int ppl_BD_Shape_int64_t_is_universe (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.55 int ppl_BD_Shape_int64_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.9.2.56 int ppl_BD_Shape_int64_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.9.2.57 int ppl_BD_Shape_int64_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.9.2.58 int ppl_BD_Shape_int64_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.9.2.59 int ppl_BD_Shape_int64_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.9.2.60 int ppl_BD_Shape_int64_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.9.2.61 int ppl_BD_Shape_int64_t_linear_partition (ppl_const_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, ppl_BD_Shape_int64_t_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.9.2.62 int ppl_BD_Shape_int64_t_map_space_dimensions (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.9.2.63 int ppl_BD_Shape_int64_t_maximize (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.9.2.64 int ppl_BD_Shape_int64_t_maximize_with_point (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.9.2.65 int ppl_BD_Shape_int64_t_minimize (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.9.2.66 int ppl_BD_Shape_int64_t_minimize_with_point (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.9.2.67 int ppl_BD_Shape_int64_t_OK (ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.68 int ppl_BD_Shape_int64_t_refine_with_congruence (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.9.2.69 int ppl_BD_Shape_int64_t_refine_with_congruences (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.9.2.70 int ppl_BD_Shape_int64_t_refine_with_constraint (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.9.2.71 int ppl_BD_Shape_int64_t_refine_with_constraints (ppl_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.9.2.72 int ppl_BD_Shape_int64_t_relation_with_Congruence (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.9.2.73 int ppl_BD_Shape_int64_t_relation_with_Constraint (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.9.2.74 int ppl_BD_Shape_int64_t_relation_with_Generator (ppl_const_BD_Shape_int64_t_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.9.2.75 int ppl_BD_Shape_int64_t_remove_higher_space_dimensions (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) `[related]`

10.9.2.76 int ppl_BD_Shape_int64_t_remove_space_dimensions (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.9.2.77 int ppl_BD_Shape_int64_t_simplify_using_context_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) `[related]`

10.9.2.78 int ppl_BD_Shape_int64_t_space_dimension (ppl_const_BD_Shape_int64_t_t *ph*, ppl_dimension_type $*$ *m*) `[related]`

10.9.2.79 int ppl_BD_Shape_int64_t_strictly_contains_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.80 int ppl_BD_Shape_int64_t_time_elapse_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.81 int ppl_BD_Shape_int64_t_topological_closure_assign (ppl_BD_Shape_int64_t_t *ph*) [related]

10.9.2.82 int ppl_BD_Shape_int64_t_total_memory_in_bytes (ppl_const_BD_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.9.2.83 int ppl_BD_Shape_int64_t_unconstrain_space_dimension (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.9.2.84 int ppl_BD_Shape_int64_t_unconstrain_space_dimensions (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.9.2.85 int ppl_BD_Shape_int64_t_upper_bound_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.86 int ppl_BD_Shape_int64_t_upper_bound_assign_if_exact (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.87 int ppl_BD_Shape_int64_t_widening_assign (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*) [related]

10.9.2.88 int ppl_BD_Shape_int64_t_widening_assign_with_tokens (ppl_BD_Shape_int64_t_t *x*, ppl_const_BD_Shape_int64_t_t *y*, unsigned ∗ *tp*) `[related]`

10.9.2.89 int ppl_BD_Shape_int64_t_wrap_assign (ppl_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) `[related]`

10.9.2.90 int ppl_delete_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *ph*) `[related]`

10.9.2.91 int ppl_new_BD_Shape_int64_t_from_BD_Shape_double (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.9.2.92 int ppl_new_BD_Shape_int64_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) `[related]`

10.9.2.93 int ppl_new_BD_Shape_int64_t_from_BD_Shape_float (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) `[related]`

10.9.2.94 int ppl_new_BD_Shape_int64_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) `[related]`

10.9.2.95 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int16_t (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) `[related]`

10.9.2.96 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.9.2.97 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int32_t (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.9.2.98 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.9.2.99 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.9.2.100 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.9.2.101 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int8_t (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.9.2.102 int ppl_new_BD_Shape_int64_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.9.2.103 int ppl_new_BD_Shape_int64_t_from_BD_Shape_long_double (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.9.2.104 int ppl_new_BD_Shape_int64_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.9.2.105 int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.9.2.106 int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.9.2.107 int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.9.2.108 int ppl_new_BD_Shape_int64_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.9.2.109 int ppl_new_BD_Shape_int64_t_from_C_Polyhedron (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.9.2.110 int ppl_new_BD_Shape_int64_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.9.2.111 int ppl_new_BD_Shape_int64_t_from_Congruence_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.9.2.112 int ppl_new_BD_Shape_int64_t_from_Constraint_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.9.2.113 int ppl_new_BD_Shape_int64_t_from_Double_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.9.2.114 int ppl_new_BD_Shape_int64_t_from_Double_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.9.2.115 int ppl_new_BD_Shape_int64_t_from_Float_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.9.2.116 int ppl_new_BD_Shape_int64_t_from_Float_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.9.2.117 int ppl_new_BD_Shape_int64_t_from_Generator_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.9.2.118 int ppl_new_BD_Shape_int64_t_from_Grid (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.9.2.119 int ppl_new_BD_Shape_int64_t_from_Grid_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.9.2.120 int ppl_new_BD_Shape_int64_t_from_Int16_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.9.2.121 int ppl_new_BD_Shape_int64_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.9.2.122 int ppl_new_BD_Shape_int64_t_from_Int32_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.9.2.123 int ppl_new_BD_Shape_int64_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.9.2.124 int ppl_new_BD_Shape_int64_t_from_Int64_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.9.2.125 int ppl_new_BD_Shape_int64_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.9.2.126 int ppl_new_BD_Shape_int64_t_from_Int8_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.9.2.127 int ppl_new_BD_Shape_int64_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.9.2.128 int ppl_new_BD_Shape_int64_t_from_Long_Double_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.9.2.129 int ppl_new_BD_Shape_int64_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.9.2.130 int ppl_new_BD_Shape_int64_t_from_NNC_Polyhedron (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.9.2.131 int ppl_new_BD_Shape_int64_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.9.2.132 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_double (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.9.2.133 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.9.2.134 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_float (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.9.2.135 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.9.2.136 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.9.2.137 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.9.2.138 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.9.2.139 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.9.2.140 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.9.2.141 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.9.2.142 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.9.2.143 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.9.2.144 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.9.2.145 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.9.2.146 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.9.2.147 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.9.2.148 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.9.2.149 int ppl_new_BD_Shape_int64_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.9.2.150 int ppl_new_BD_Shape_int64_t_from_Rational_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.9.2.151 int ppl_new_BD_Shape_int64_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.9.2.152 int ppl_new_BD_Shape_int64_t_from_space_dimension (ppl_BD_Shape_int64_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.9.2.153 int ppl_new_BD_Shape_int64_t_from_Uint16_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.9.2.154 int ppl_new_BD_Shape_int64_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.9.2.155 int ppl_new_BD_Shape_int64_t_from_Uint32_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.9.2.156 int ppl_new_BD_Shape_int64_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.9.2.157 int ppl_new_BD_Shape_int64_t_from_Uint64_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.9.2.158 int ppl_new_BD_Shape_int64_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.9.2.159 int ppl_new_BD_Shape_int64_t_from_Uint8_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.9.2.160 int ppl_new_BD_Shape_int64_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.9.2.161 int ppl_new_BD_Shape_int64_t_from_Z_Box (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.9.2.162 int ppl_new_BD_Shape_int64_t_from_Z_Box_with_complexity (ppl_BD_Shape_int64_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.9.2.163 int ppl_new_BD_Shape_int64_t_recycle_Congruence_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.9.2.164 int ppl_new_BD_Shape_int64_t_recycle_Constraint_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_Constraint_System_t *cs*) `[related]`

10.9.2.165 int ppl_new_BD_Shape_int64_t_recycle_Generator_System (ppl_BD_Shape_int64_t_t * *pph*, ppl_Generator_System_t *cs*) `[related]`

10.9.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*, ppl_Generator_t *point*) `[related]`

10.9.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*, ppl_Generator_t *point*) `[related]`

10.9.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*, ppl_Generator_t *point*) `[related]`

10.9.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*, ppl_Generator_t *point*) `[related]`

10.9.2.170 int ppl_termination_test_MS_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*) `[related]`

10.9.2.171 int ppl_termination_test_MS_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*) `[related]`

10.9.2.172 int ppl_termination_test_PR_BD_Shape_int64_t (ppl_const_BD_Shape_int64_t_t *pset*) `[related]`

10.9.2.173 int ppl_termination_test_PR_BD_Shape_int64_t_2 (ppl_const_BD_Shape_int64_t_t *pset_before*, ppl_const_BD_Shape_int64_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.10 ppl_BD_Shape_int8_t_tag Interface Reference

Types and functions for ppl_BD_Shape_int8_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_space_dimension (ppl_BD_Shape_int8_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_int8_t_from_Int8_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Int16_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Int32_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Int64_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Uint8_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Uint16_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Uint32_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Uint64_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Z_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_Rational_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int16_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int32_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int64_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_int8_t_from_C_Polyhedron (ppl_BD_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int8_t_from_NNC_Polyhedron (ppl_BD_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_int8_t_from_Grid (ppl_BD_Shape_int8_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_int8_t_from_Float_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_float (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_float (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_int8_t_from_Double_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_double (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_double (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_int8_t_from_Long_Double_Box (ppl_BD_Shape_int8_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_long_double (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_int8_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)

- int ppl_new_BD_Shape_int8_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Z_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Grid_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Float_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Double_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_int8_t_from_Constraint_System (ppl_BD_Shape_int8_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_int8_t_from_Congruence_System (ppl_BD_Shape_int8_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_int8_t_from_Generator_System (ppl_BD_Shape_int8_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_int8_t_space_dimension (ppl_const_BD_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int8_t_affine_dimension (ppl_const_BD_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_int8_t_relation_with_Constraint (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int8_t_relation_with_Generator (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_int8_t_relation_with_Congruence (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int8_t_get_constraints (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int8_t_get_congruences (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int8_t_get_minimized_constraints (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_int8_t_get_minimized_congruences (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_int8_t_is_empty (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_is_universe (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_is_bounded (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_contains_integer_point (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_is_topologically_closed (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_is_discrete (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_topological_closure_assign (ppl_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_bounds_from_above (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int8_t_bounds_from_below (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_int8_t_maximize (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int8_t_minimize (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_int8_t_maximize_with_point (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int8_t_minimize_with_point (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_int8_t_frequency (ppl_const_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_int8_t_contains_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y)

- int ppl_BD_Shape_int8_t_strictly_contains_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_is_disjoint_from_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_equals_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t x, ppl_const_-BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_OK (ppl_const_BD_Shape_int8_t_t ph)
- int ppl_BD_Shape_int8_t_add_constraint (ppl_BD_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_int8_t_add_congruence (ppl_BD_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_int8_t_add_constraints (ppl_BD_Shape_int8_t_t ph, ppl_const_Constraint_-System_t cs)
- int ppl_BD_Shape_int8_t_add_congruences (ppl_BD_Shape_int8_t_t ph, ppl_const_Congruence_-System_t cs)
- int ppl_BD_Shape_int8_t_refine_with_constraint (ppl_BD_Shape_int8_t_t ph, ppl_const_-Constraint_t c)
- int ppl_BD_Shape_int8_t_refine_with_congruence (ppl_BD_Shape_int8_t_t ph, ppl_const_-Congruence_t c)
- int ppl_BD_Shape_int8_t_refine_with_constraints (ppl_BD_Shape_int8_t_t ph, ppl_const_-Constraint_System_t cs)
- int ppl_BD_Shape_int8_t_refine_with_congruences (ppl_BD_Shape_int8_t_t ph, ppl_const_-Congruence_System_t cs)
- int ppl_BD_Shape_int8_t_intersection_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_upper_bound_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_difference_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_concatenate_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_time_elapse_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_upper_bound_assign_if_exact (ppl_BD_Shape_int8_t_t x, ppl_const_-BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_simplify_using_context_assign (ppl_BD_Shape_int8_t_t x, ppl_const_-BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_constrains (ppl_BD_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_int8_t_unconstrain_space_dimension (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type var)
- int ppl_BD_Shape_int8_t_unconstrain_space_dimensions (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int8_t_affine_image (ppl_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_-const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int8_t_affine_preimage (ppl_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int8_t_bounded_affine_image (ppl_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int8_t_bounded_affine_preimage (ppl_BD_Shape_int8_t_t ph, ppl_dimension_-type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_-Coefficient_t d)

- int ppl_BD_Shape_int8_t_generalized_affine_image (ppl_BD_Shape_int8_t_t ph, ppl_dimension_-type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)
- int ppl_BD_Shape_int8_t_generalized_affine_preimage (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int8_t_t ph, ppl_-const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_-Expression_t rhs)
- int ppl_BD_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int8_t_t ph, ppl_-const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_-Expression_t rhs)
- int ppl_BD_Shape_int8_t_add_space_dimensions_and_embed (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type d)
- int ppl_BD_Shape_int8_t_add_space_dimensions_and_project (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type d)
- int ppl_BD_Shape_int8_t_remove_space_dimensions (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_int8_t_remove_higher_space_dimensions (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type d)
- int ppl_BD_Shape_int8_t_expand_space_dimension (ppl_BD_Shape_int8_t_t ph, ppl_dimension_-type d, ppl_dimension_type m)
- int ppl_BD_Shape_int8_t_fold_space_dimensions (ppl_BD_Shape_int8_t_t ph, ppl_dimension_-type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_int8_t_map_space_dimensions (ppl_BD_Shape_int8_t_t ph, ppl_dimension_-type maps[ ], size_t n)
- int ppl_BD_Shape_int8_t_drop_some_non_integer_points (ppl_BD_Shape_int8_t_t ph, int com-plexity)
- int ppl_BD_Shape_int8_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int8_t_t ph, ppl_-dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_int8_t_external_memory_in_bytes (ppl_const_BD_Shape_int8_t_t ps, size_-t ∗sz)
- int ppl_BD_Shape_int8_t_total_memory_in_bytes (ppl_const_BD_Shape_int8_t_t ps, size_t ∗sz)
- int ppl_BD_Shape_int8_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t x, ppl_-const_BD_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_BHMZ05_widening_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_-Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_H79_widening_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_-Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t x, ppl_const_-BD_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_widening_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_-int8_t_t y)
- int ppl_BD_Shape_int8_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_-int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_-t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_-int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_int8_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int8_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int8_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_int8_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_BD_Shape_int8_t_CC76_extrapolation_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_CC76_narrowing_assign (ppl_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y)
- int ppl_BD_Shape_int8_t_linear_partition (ppl_const_BD_Shape_int8_t_t x, ppl_const_BD_Shape_int8_t_t y, ppl_BD_Shape_int8_t_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_BD_Shape_int8_t_wrap_assign (ppl_BD_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_int8_t_recycle_Constraint_System (ppl_BD_Shape_int8_t_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_int8_t_recycle_Congruence_System (ppl_BD_Shape_int8_t_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_int8_t_recycle_Generator_System (ppl_BD_Shape_int8_t_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_BD_Shape_int8_t_t dst, ppl_const_BD_Shape_int8_t_t src)
- int ppl_BD_Shape_int8_t_add_recycled_constraints (ppl_BD_Shape_int8_t_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_int8_t_add_recycled_congruences (ppl_BD_Shape_int8_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset)
- int ppl_termination_test_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after)
- int ppl_termination_test_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t pset_before, ppl_const_BD_Shape_int8_t_t pset_after, ppl_Polyhedron_t ph)

10.10.1 Detailed Description

Types and functions for ppl_BD_Shape_int8_t_tag.

10.10.2 Friends And Related Function Documentation

10.10.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.10.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.10.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.10.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.10.2.5 int ppl_assign_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_BD_Shape_int8_t_t *dst*, ppl_const_BD_Shape_int8_t_t *src*) [related]

10.10.2.6 int ppl_BD_Shape_int8_t_add_congruence (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.10.2.7 int ppl_BD_Shape_int8_t_add_congruences (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.10.2.8 int ppl_BD_Shape_int8_t_add_constraint (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.10.2.9 int ppl_BD_Shape_int8_t_add_constraints (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.10 int ppl_BD_Shape_int8_t_add_recycled_congruences (ppl_BD_Shape_int8_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.10.2.11 int ppl_BD_Shape_int8_t_add_recycled_constraints (ppl_BD_Shape_int8_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.10.2.12 int ppl_BD_Shape_int8_t_add_space_dimensions_and_embed (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.10.2.13 int ppl_BD_Shape_int8_t_add_space_dimensions_and_project (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.10.2.14 int ppl_BD_Shape_int8_t_affine_dimension (ppl_const_BD_Shape_int8_t_t *ph*, ppl_dimension_type * *m*) [related]

10.10.2.15 int ppl_BD_Shape_int8_t_affine_image (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.10.2.16 int ppl_BD_Shape_int8_t_affine_preimage (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.10.2.17 int ppl_BD_Shape_int8_t_BHMZ05_widening_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.18 int ppl_BD_Shape_int8_t_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, unsigned ∗ *tp*) [related]

10.10.2.19 int ppl_BD_Shape_int8_t_bounded_affine_image (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.10.2.20 int ppl_BD_Shape_int8_t_bounded_affine_preimage (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.10.2.21 int ppl_BD_Shape_int8_t_bounds_from_above (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.10.2.22 int ppl_BD_Shape_int8_t_bounds_from_below (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.10.2.23 int ppl_BD_Shape_int8_t_CC76_extrapolation_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.24 int ppl_BD_Shape_int8_t_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, unsigned ∗ *tp*) [related]

10.10.2.25 int ppl_BD_Shape_int8_t_CC76_narrowing_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.26 int ppl_BD_Shape_int8_t_concatenate_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.27 int ppl_BD_Shape_int8_t_constrains (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.10.2.28 int ppl_BD_Shape_int8_t_contains_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.29 int ppl_BD_Shape_int8_t_contains_integer_point (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.30 int ppl_BD_Shape_int8_t_difference_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.31 int ppl_BD_Shape_int8_t_drop_some_non_integer_points (ppl_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.10.2.32 int ppl_BD_Shape_int8_t_drop_some_non_integer_points_2 (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.10.2.33 int ppl_BD_Shape_int8_t_equals_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.34 int ppl_BD_Shape_int8_t_expand_space_dimension (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.10.2.35 int ppl_BD_Shape_int8_t_external_memory_in_bytes (ppl_const_BD_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.10.2.36 int ppl_BD_Shape_int8_t_fold_space_dimensions (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.10.2.37 int ppl_BD_Shape_int8_t_frequency (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.10.2.38 int ppl_BD_Shape_int8_t_generalized_affine_image (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.10.2.39 int ppl_BD_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.10.2.40 int ppl_BD_Shape_int8_t_generalized_affine_preimage (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.10.2.41 int ppl_BD_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.10.2.42 int ppl_BD_Shape_int8_t_get_congruences (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.10.2.43 int ppl_BD_Shape_int8_t_get_constraints (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.10.2.44 int ppl_BD_Shape_int8_t_get_minimized_congruences (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.10.2.45 int ppl_BD_Shape_int8_t_get_minimized_constraints (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.10.2.46 int ppl_BD_Shape_int8_t_H79_widening_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.47 int ppl_BD_Shape_int8_t_H79_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, unsigned * *tp*) [related]

10.10.2.48 int ppl_BD_Shape_int8_t_intersection_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.49 int ppl_BD_Shape_int8_t_is_bounded (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.50 int ppl_BD_Shape_int8_t_is_discrete (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.51 int ppl_BD_Shape_int8_t_is_disjoint_from_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.52 int ppl_BD_Shape_int8_t_is_empty (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.53 int ppl_BD_Shape_int8_t_is_topologically_closed (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.54 int ppl_BD_Shape_int8_t_is_universe (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.55 int ppl_BD_Shape_int8_t_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.56 int ppl_BD_Shape_int8_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.10.2.57 int ppl_BD_Shape_int8_t_limited_CC76_extrapolation_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.58 int ppl_BD_Shape_int8_t_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.10.2.59 int ppl_BD_Shape_int8_t_limited_H79_extrapolation_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.60 int ppl_BD_Shape_int8_t_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.10.2.61 int ppl_BD_Shape_int8_t_linear_partition (ppl_const_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, ppl_BD_Shape_int8_t_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.10.2.62 int ppl_BD_Shape_int8_t_map_space_dimensions (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.10.2.63 int ppl_BD_Shape_int8_t_maximize (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.10.2.64 int ppl_BD_Shape_int8_t_maximize_with_point (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.10.2.65 int ppl_BD_Shape_int8_t_minimize (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.10.2.66 int ppl_BD_Shape_int8_t_minimize_with_point (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.10.2.67 int ppl_BD_Shape_int8_t_OK (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.68 int ppl_BD_Shape_int8_t_refine_with_congruence (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.10.2.69 int ppl_BD_Shape_int8_t_refine_with_congruences (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.10.2.70 int ppl_BD_Shape_int8_t_refine_with_constraint (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.10.2.71 int ppl_BD_Shape_int8_t_refine_with_constraints (ppl_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.72 int ppl_BD_Shape_int8_t_relation_with_Congruence (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.10.2.73 int ppl_BD_Shape_int8_t_relation_with_Constraint (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.10.2.74 int ppl_BD_Shape_int8_t_relation_with_Generator (ppl_const_BD_Shape_int8_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.10.2.75 int ppl_BD_Shape_int8_t_remove_higher_space_dimensions (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.10.2.76 int ppl_BD_Shape_int8_t_remove_space_dimensions (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.10.2.77 int ppl_BD_Shape_int8_t_simplify_using_context_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.78 int ppl_BD_Shape_int8_t_space_dimension (ppl_const_BD_Shape_int8_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.10.2.79 int ppl_BD_Shape_int8_t_strictly_contains_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.80 int ppl_BD_Shape_int8_t_time_elapse_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.81 int ppl_BD_Shape_int8_t_topological_closure_assign (ppl_BD_Shape_int8_t_t *ph*) [related]

10.10.2.82 int ppl_BD_Shape_int8_t_total_memory_in_bytes (ppl_const_BD_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.10.2.83 int ppl_BD_Shape_int8_t_unconstrain_space_dimension (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.10.2.84 int ppl_BD_Shape_int8_t_unconstrain_space_dimensions (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.10.2.85 int ppl_BD_Shape_int8_t_upper_bound_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.86 int ppl_BD_Shape_int8_t_upper_bound_assign_if_exact (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.87 int ppl_BD_Shape_int8_t_widening_assign (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*) [related]

10.10.2.88 int ppl_BD_Shape_int8_t_widening_assign_with_tokens (ppl_BD_Shape_int8_t_t *x*, ppl_const_BD_Shape_int8_t_t *y*, unsigned * *tp*) [related]

10.10.2.89 int ppl_BD_Shape_int8_t_wrap_assign (ppl_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.10.2.90 int ppl_delete_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.91 int ppl_new_BD_Shape_int8_t_from_BD_Shape_double (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.10.2.92 int ppl_new_BD_Shape_int8_t_from_BD_Shape_double_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.10.2.93 int ppl_new_BD_Shape_int8_t_from_BD_Shape_float (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.10.2.94 int ppl_new_BD_Shape_int8_t_from_BD_Shape_float_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.10.2.95 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int16_t (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.10.2.96 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.10.2.97 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int32_t (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.10.2.98 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.10.2.99 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int64_t (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.10.2.100 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.10.2.101 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.10.2.102 int ppl_new_BD_Shape_int8_t_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.10.2.103 int ppl_new_BD_Shape_int8_t_from_BD_Shape_long_double (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.10.2.104 int ppl_new_BD_Shape_int8_t_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.10.2.105 int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpq_class (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.10.2.106 int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.10.2.107 int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpz_class (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.10.2.108 int ppl_new_BD_Shape_int8_t_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.10.2.109 int ppl_new_BD_Shape_int8_t_from_C_Polyhedron (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.10.2.110 int ppl_new_BD_Shape_int8_t_from_C_Polyhedron_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.10.2.111 int ppl_new_BD_Shape_int8_t_from_Congruence_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.10.2.112 int ppl_new_BD_Shape_int8_t_from_Constraint_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.10.2.113 int ppl_new_BD_Shape_int8_t_from_Double_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.10.2.114 int ppl_new_BD_Shape_int8_t_from_Double_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.10.2.115 int ppl_new_BD_Shape_int8_t_from_Float_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.10.2.116 int ppl_new_BD_Shape_int8_t_from_Float_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.10.2.117 int ppl_new_BD_Shape_int8_t_from_Generator_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.10.2.118 int ppl_new_BD_Shape_int8_t_from_Grid (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.10.2.119 int ppl_new_BD_Shape_int8_t_from_Grid_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.10.2.120 int ppl_new_BD_Shape_int8_t_from_Int16_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.10.2.121 int ppl_new_BD_Shape_int8_t_from_Int16_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.10.2.122 int ppl_new_BD_Shape_int8_t_from_Int32_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.10.2.123 int ppl_new_BD_Shape_int8_t_from_Int32_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.10.2.124 int ppl_new_BD_Shape_int8_t_from_Int64_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.10.2.125 int ppl_new_BD_Shape_int8_t_from_Int64_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.10.2.126 int ppl_new_BD_Shape_int8_t_from_Int8_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.10.2.127 int ppl_new_BD_Shape_int8_t_from_Int8_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.10.2.128 int ppl_new_BD_Shape_int8_t_from_Long_Double_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.10.2.129 int ppl_new_BD_Shape_int8_t_from_Long_Double_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.10.2.130 int ppl_new_BD_Shape_int8_t_from_NNC_Polyhedron (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.10.2.131 int ppl_new_BD_Shape_int8_t_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.10.2.132 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_double (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.10.2.133 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.10.2.134 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_float (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.10.2.135 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.10.2.136 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int16_t (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.10.2.137 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.10.2.138 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int32_t (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.10.2.139 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.10.2.140 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int64_t (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.10.2.141 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.10.2.142 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.10.2.143 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.10.2.144 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_long_double (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.10.2.145 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.10.2.146 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.10.2.147 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.10.2.148 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.10.2.149 int ppl_new_BD_Shape_int8_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.10.2.150 int ppl_new_BD_Shape_int8_t_from_Rational_Box (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.10.2.151 int ppl_new_BD_Shape_int8_t_from_Rational_Box_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.10.2.152 int ppl_new_BD_Shape_int8_t_from_space_dimension (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.10.2.153 int ppl_new_BD_Shape_int8_t_from_Uint16_Box (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.10.2.154 int ppl_new_BD_Shape_int8_t_from_Uint16_Box_with_complexity (ppl_BD_Shape_int8_t_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.10.2.155 int ppl_new_BD_Shape_int8_t_from_Uint32_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.10.2.156 int ppl_new_BD_Shape_int8_t_from_Uint32_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.10.2.157 int ppl_new_BD_Shape_int8_t_from_Uint64_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.10.2.158 int ppl_new_BD_Shape_int8_t_from_Uint64_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.10.2.159 int ppl_new_BD_Shape_int8_t_from_Uint8_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.10.2.160 int ppl_new_BD_Shape_int8_t_from_Uint8_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.10.2.161 int ppl_new_BD_Shape_int8_t_from_Z_Box (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.10.2.162 int ppl_new_BD_Shape_int8_t_from_Z_Box_with_complexity (ppl_BD_Shape_int8_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.10.2.163 int ppl_new_BD_Shape_int8_t_recycle_Congruence_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.10.2.164 int ppl_new_BD_Shape_int8_t_recycle_Constraint_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.10.2.165 int ppl_new_BD_Shape_int8_t_recycle_Generator_System (ppl_BD_Shape_int8_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.10.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*, ppl_Generator_t *point*) [related]

10.10.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.10.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*, ppl_Generator_t *point*) [related]

10.10.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.10.2.170 int ppl_termination_test_MS_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*) [related]

10.10.2.171 int ppl_termination_test_MS_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*) [related]

10.10.2.172 int ppl_termination_test_PR_BD_Shape_int8_t (ppl_const_BD_Shape_int8_t_t *pset*) [related]

10.10.2.173 int ppl_termination_test_PR_BD_Shape_int8_t_2 (ppl_const_BD_Shape_int8_t_t *pset_before*, ppl_const_BD_Shape_int8_t_t *pset_after*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.11 ppl_BD_Shape_long_double_tag Interface Reference

Types and functions for ppl_BD_Shape_long_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_long_double_from_space_dimension (ppl_BD_Shape_long_double_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_long_double_from_Int8_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Int16_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Int32_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Int64_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Uint8_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Uint16_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Uint32_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Uint64_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Z_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_Rational_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int8_t (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int16_t (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int32_t (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int64_t (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_mpz_class (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_BD_Shape_long_double_from_BD_Shape_mpq_class (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int8_t (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int16_t (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int32_t (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int64_t (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_long_double_from_C_Polyhedron (ppl_BD_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_long_double_from_NNC_Polyhedron (ppl_BD_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_long_double_from_Grid (ppl_BD_Shape_long_double_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_long_double_from_Float_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_float (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_float (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_long_double_from_Double_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_double (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_double (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_long_double_from_Long_Double_Box (ppl_BD_Shape_long_double_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_long_double (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_long_double (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_long_double_from_Int8_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Int16_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Int32_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Int64_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Uint8_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Uint16_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Uint32_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint32_Box_t ph, int complexity)

- int ppl_new_BD_Shape_long_double_from_Uint64_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Z_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Rational_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_C_Polyhedron_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Grid_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Float_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_float_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Double_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_double_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Long_Double_Box_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_long_double_from_Constraint_System (ppl_BD_Shape_long_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_long_double_from_Congruence_System (ppl_BD_Shape_long_double_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_long_double_from_Generator_System (ppl_BD_Shape_long_double_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_long_double_space_dimension (ppl_const_BD_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_long_double_affine_dimension (ppl_const_BD_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_long_double_relation_with_Constraint (ppl_const_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_long_double_relation_with_Generator (ppl_const_BD_Shape_long_double_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_long_double_relation_with_Congruence (ppl_const_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_long_double_get_constraints (ppl_const_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_long_double_get_congruences (ppl_const_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_long_double_get_minimized_constraints (ppl_const_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_long_double_get_minimized_congruences (ppl_const_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_long_double_is_empty (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_is_universe (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_is_bounded (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_contains_integer_point (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_is_topologically_closed (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_is_discrete (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_topological_closure_assign (ppl_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_bounds_from_above (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_long_double_bounds_from_below (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_long_double_maximize (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_long_double_minimize (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_long_double_maximize_with_point (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_long_double_minimize_with_point (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_long_double_frequency (ppl_const_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)

- int ppl_BD_Shape_long_double_contains_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_strictly_contains_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_is_disjoint_from_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_equals_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_OK (ppl_const_BD_Shape_long_double_t ph)
- int ppl_BD_Shape_long_double_add_constraint (ppl_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_long_double_add_congruence (ppl_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_long_double_add_constraints (ppl_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_add_congruences (ppl_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_long_double_refine_with_constraint (ppl_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_long_double_refine_with_congruence (ppl_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_long_double_refine_with_constraints (ppl_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_refine_with_congruences (ppl_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_long_double_intersection_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_upper_bound_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_difference_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_concatenate_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_time_elapse_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_upper_bound_assign_if_exact (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_simplify_using_context_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_constrains (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_long_double_unconstrain_space_dimension (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_long_double_unconstrain_space_dimensions (ppl_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_long_double_affine_image (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_long_double_affine_preimage (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_long_double_bounded_affine_image (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_long_double_bounded_affine_preimage (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_long_double_generalized_affine_image (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_long_double_generalized_affine_preimage (ppl_BD_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_long_double_add_space_dimensions_and_embed (ppl_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_long_double_add_space_dimensions_and_project (ppl_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_long_double_remove_space_dimensions (ppl_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_long_double_remove_higher_space_dimensions (ppl_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_long_double_expand_space_dimension (ppl_BD_Shape_long_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_long_double_fold_space_dimensions (ppl_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_long_double_map_space_dimensions (ppl_BD_Shape_long_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_long_double_drop_some_non_integer_points (ppl_BD_Shape_long_double_t ph, int complexity)
- int ppl_BD_Shape_long_double_drop_some_non_integer_points_2 (ppl_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_long_double_external_memory_in_bytes (ppl_const_BD_Shape_long_double_t ps, size_t ∗sz)
- int ppl_BD_Shape_long_double_total_memory_in_bytes (ppl_const_BD_Shape_long_double_t ps, size_t ∗sz)
- int ppl_BD_Shape_long_double_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, unsigned ∗tp)
- int ppl_BD_Shape_long_double_H79_widening_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, unsigned ∗tp)
- int ppl_BD_Shape_long_double_BHMZ05_widening_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_H79_widening_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_widening_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, unsigned ∗tp)
- int ppl_BD_Shape_long_double_widening_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_long_double_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_long_double_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_long_double_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_limited_H79_extrapolation_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_limited_CC76_extrapolation_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, unsigned *tp)
- int ppl_BD_Shape_long_double_CC76_extrapolation_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_CC76_narrowing_assign (ppl_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y)
- int ppl_BD_Shape_long_double_linear_partition (ppl_const_BD_Shape_long_double_t x, ppl_const_BD_Shape_long_double_t y, ppl_BD_Shape_long_double_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_long_double_wrap_assign (ppl_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_long_double_recycle_Constraint_System (ppl_BD_Shape_long_double_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_long_double_recycle_Congruence_System (ppl_BD_Shape_long_double_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_long_double_recycle_Generator_System (ppl_BD_Shape_long_double_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_long_double_from_BD_Shape_long_double (ppl_BD_Shape_long_double_t dst, ppl_const_BD_Shape_long_double_t src)
- int ppl_BD_Shape_long_double_add_recycled_constraints (ppl_BD_Shape_long_double_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_long_double_add_recycled_congruences (ppl_BD_Shape_long_double_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset)
- int ppl_termination_test_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after)
- int ppl_termination_test_PR_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after)

- int ppl_one_affine_ranking_function_MS_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t pset_before, ppl_const_BD_Shape_long_double_t pset_after, ppl_Polyhedron_t ph)

10.11.1 Detailed Description

Types and functions for ppl_BD_Shape_long_double_tag.

10.11.2 Friends And Related Function Documentation

10.11.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.11.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.11.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.11.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.11.2.5 int ppl_assign_BD_Shape_long_double_from_BD_Shape_long_double (ppl_BD_Shape_long_double_t *dst*, ppl_const_BD_Shape_long_double_t *src*) [related]

10.11.2.6 int ppl_BD_Shape_long_double_add_congruence (ppl_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.11.2.7 int ppl_BD_Shape_long_double_add_congruences (ppl_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.11.2.8 int ppl_BD_Shape_long_double_add_constraint (ppl_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.11.2.9 int ppl_BD_Shape_long_double_add_constraints (ppl_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.11.2.10 int ppl_BD_Shape_long_double_add_recycled_congruences (ppl_BD_Shape_long_double_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.11.2.11 int ppl_BD_Shape_long_double_add_recycled_constraints (ppl_BD_Shape_long_double_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.11.2.12 int ppl_BD_Shape_long_double_add_space_dimensions_and_embed (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.11.2.13 int ppl_BD_Shape_long_double_add_space_dimensions_and_project (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.11.2.14 int ppl_BD_Shape_long_double_affine_dimension (ppl_const_BD_Shape_long_-double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.11.2.15 int ppl_BD_Shape_long_double_affine_image (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.11.2.16 int ppl_BD_Shape_long_double_affine_preimage (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.11.2.17 int ppl_BD_Shape_long_double_BHMZ05_widening_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.18 int ppl_BD_Shape_long_double_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, unsigned * *tp*) [related]

10.11.2.19 int ppl_BD_Shape_long_double_bounded_affine_image (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.11.2.20 int ppl_BD_Shape_long_double_bounded_affine_preimage (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.11.2.21 int ppl_BD_Shape_long_double_bounds_from_above (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.11.2.22 int ppl_BD_Shape_long_double_bounds_from_below (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.11.2.23 int ppl_BD_Shape_long_double_CC76_extrapolation_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.24 int ppl_BD_Shape_long_double_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, unsigned * *tp*) [related]

10.11.2.25 int ppl_BD_Shape_long_double_CC76_narrowing_assign (ppl_BD_-Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.26 int ppl_BD_Shape_long_double_concatenate_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.27 int ppl_BD_Shape_long_double_constrains (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.11.2.28 int ppl_BD_Shape_long_double_contains_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.29 int ppl_BD_Shape_long_double_contains_integer_point (ppl_const_BD_Shape_long_-double_t *ph*) [related]

10.11.2.30 int ppl_BD_Shape_long_double_difference_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.31 int ppl_BD_Shape_long_double_drop_some_non_integer_points (ppl_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.11.2.32 int ppl_BD_Shape_long_double_drop_some_non_integer_points_2 (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.11.2.33 int ppl_BD_Shape_long_double_equals_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.34 int ppl_BD_Shape_long_double_expand_space_dimension (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.11.2.35 int ppl_BD_Shape_long_double_external_memory_in_bytes (ppl_const_BD_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.11.2.36 int ppl_BD_Shape_long_double_fold_space_dimensions (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.11.2.37 int ppl_BD_Shape_long_double_frequency (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.11.2.38 int ppl_BD_Shape_long_double_generalized_affine_image (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.11.2.39 int ppl_BD_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.11.2.40 int ppl_BD_Shape_long_double_generalized_affine_preimage (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.11.2.41 int ppl_BD_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.11.2.42 int ppl_BD_Shape_long_double_get_congruences (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.11.2.43 int ppl_BD_Shape_long_double_get_constraints (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.11.2.44 int ppl_BD_Shape_long_double_get_minimized_congruences (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.11.2.45 int ppl_BD_Shape_long_double_get_minimized_constraints (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.11.2.46 int ppl_BD_Shape_long_double_H79_widening_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.47 int ppl_BD_Shape_long_double_H79_widening_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, unsigned * *tp*) [related]

10.11.2.48 int ppl_BD_Shape_long_double_intersection_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.49 int ppl_BD_Shape_long_double_is_bounded (ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.50 int ppl_BD_Shape_long_double_is_discrete (ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.51 int ppl_BD_Shape_long_double_is_disjoint_from_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.52 int ppl_BD_Shape_long_double_is_empty (ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.53 int ppl_BD_Shape_long_double_is_topologically_closed (ppl_const_BD_Shape_long_-double_t *ph*) [related]

10.11.2.54 int ppl_BD_Shape_long_double_is_universe (ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.55 int ppl_BD_Shape_long_double_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.11.2.56 int ppl_BD_Shape_long_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.11.2.57 int ppl_BD_Shape_long_double_limited_CC76_extrapolation_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.11.2.58 int ppl_BD_Shape_long_double_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.11.2.59 int ppl_BD_Shape_long_double_limited_H79_extrapolation_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.11.2.60 int ppl_BD_Shape_long_double_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.11.2.61 int ppl_BD_Shape_long_double_linear_partition (ppl_const_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, ppl_BD_Shape_long_double_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.11.2.62 int ppl_BD_Shape_long_double_map_space_dimensions (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.11.2.63 int ppl_BD_Shape_long_double_maximize (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.11.2.64 int ppl_BD_Shape_long_double_maximize_with_point (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.11.2.65 int ppl_BD_Shape_long_double_minimize (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) `[related]`

10.11.2.66 int ppl_BD_Shape_long_double_minimize_with_point (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) `[related]`

10.11.2.67 int ppl_BD_Shape_long_double_OK (ppl_const_BD_Shape_long_double_t *ph*) `[related]`

10.11.2.68 int ppl_BD_Shape_long_double_refine_with_congruence (ppl_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.11.2.69 int ppl_BD_Shape_long_double_refine_with_congruences (ppl_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.11.2.70 int ppl_BD_Shape_long_double_refine_with_constraint (ppl_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.11.2.71 int ppl_BD_Shape_long_double_refine_with_constraints (ppl_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.11.2.72 int ppl_BD_Shape_long_double_relation_with_Congruence (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.11.2.73 int ppl_BD_Shape_long_double_relation_with_Constraint (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.11.2.74 int ppl_BD_Shape_long_double_relation_with_Generator (ppl_const_BD_Shape_long_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.11.2.75 int ppl_BD_Shape_long_double_remove_higher_space_dimensions (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.11.2.76 int ppl_BD_Shape_long_double_remove_space_dimensions (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.11.2.77 int ppl_BD_Shape_long_double_simplify_using_context_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.78 int ppl_BD_Shape_long_double_space_dimension (ppl_const_BD_Shape_long_double_t *ph*, ppl_dimension_type * *m*) [related]

10.11.2.79 int ppl_BD_Shape_long_double_strictly_contains_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.80 int ppl_BD_Shape_long_double_time_elapse_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.81 int ppl_BD_Shape_long_double_topological_closure_assign (ppl_BD_Shape_long_double_t *ph*) [related]

10.11.2.82 int ppl_BD_Shape_long_double_total_memory_in_bytes (ppl_const_BD_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.11.2.83 int ppl_BD_Shape_long_double_unconstrain_space_dimension (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.11.2.84 int ppl_BD_Shape_long_double_unconstrain_space_dimensions (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.11.2.85 int ppl_BD_Shape_long_double_upper_bound_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.86 int ppl_BD_Shape_long_double_upper_bound_assign_if_exact (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.87 int ppl_BD_Shape_long_double_widening_assign (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*) [related]

10.11.2.88 int ppl_BD_Shape_long_double_widening_assign_with_tokens (ppl_BD_Shape_long_double_t *x*, ppl_const_BD_Shape_long_double_t *y*, unsigned * *tp*) [related]

10.11.2.89 int ppl_BD_Shape_long_double_wrap_assign (ppl_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.11.2.90 int ppl_delete_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.91 int ppl_new_BD_Shape_long_double_from_BD_Shape_double (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.11.2.92 int ppl_new_BD_Shape_long_double_from_BD_Shape_double_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.11.2.93 int ppl_new_BD_Shape_long_double_from_BD_Shape_float (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.11.2.94 int ppl_new_BD_Shape_long_double_from_BD_Shape_float_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.11.2.95 int ppl_new_BD_Shape_long_double_from_BD_Shape_int16_t (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.11.2.96 int ppl_new_BD_Shape_long_double_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.11.2.97 int ppl_new_BD_Shape_long_double_from_BD_Shape_int32_t (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.11.2.98 int ppl_new_BD_Shape_long_double_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.11.2.99 int ppl_new_BD_Shape_long_double_from_BD_Shape_int64_t (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.11.2.100 int ppl_new_BD_Shape_long_double_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.11.2.101 int ppl_new_BD_Shape_long_double_from_BD_Shape_int8_t (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.11.2.102 int ppl_new_BD_Shape_long_double_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.11.2.103 int ppl_new_BD_Shape_long_double_from_BD_Shape_long_double (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.11.2.104 int ppl_new_BD_Shape_long_double_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.11.2.105 int ppl_new_BD_Shape_long_double_from_BD_Shape_mpq_class (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.11.2.106 int ppl_new_BD_Shape_long_double_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.11.2.107 int ppl_new_BD_Shape_long_double_from_BD_Shape_mpz_class (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.11.2.108 int ppl_new_BD_Shape_long_double_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.11.2.109 int ppl_new_BD_Shape_long_double_from_C_Polyhedron (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.11.2.110 int ppl_new_BD_Shape_long_double_from_C_Polyhedron_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.11.2.111 int ppl_new_BD_Shape_long_double_from_Congruence_System (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.11.2.112 int ppl_new_BD_Shape_long_double_from_Constraint_System (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.11.2.113 int ppl_new_BD_Shape_long_double_from_Double_Box (ppl_-BD_Shape_long_double_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.11.2.114 int ppl_new_BD_Shape_long_double_from_Double_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.11.2.115 int ppl_new_BD_Shape_long_double_from_Float_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.11.2.116 int ppl_new_BD_Shape_long_double_from_Float_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.11.2.117 int ppl_new_BD_Shape_long_double_from_Generator_System (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.11.2.118 int ppl_new_BD_Shape_long_double_from_Grid (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.11.2.119 int ppl_new_BD_Shape_long_double_from_Grid_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.11.2.120 int ppl_new_BD_Shape_long_double_from_Int16_Box (ppl_-BD_Shape_long_double_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.11.2.121 int ppl_new_BD_Shape_long_double_from_Int16_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.11.2.122 int ppl_new_BD_Shape_long_double_from_Int32_Box (ppl_-BD_Shape_long_double_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.11.2.123 int ppl_new_BD_Shape_long_double_from_Int32_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.11.2.124 int ppl_new_BD_Shape_long_double_from_Int64_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.11.2.125 int ppl_new_BD_Shape_long_double_from_Int64_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.11.2.126 int ppl_new_BD_Shape_long_double_from_Int8_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.11.2.127 int ppl_new_BD_Shape_long_double_from_Int8_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.11.2.128 int ppl_new_BD_Shape_long_double_from_Long_Double_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.11.2.129 int ppl_new_BD_Shape_long_double_from_Long_Double_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.11.2.130 int ppl_new_BD_Shape_long_double_from_NNC_Polyhedron (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.11.2.131 int ppl_new_BD_Shape_long_double_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.11.2.132 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_double (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.11.2.133 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-double_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.11.2.134 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_float (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.11.2.135 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.11.2.136 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int16_t (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.11.2.137 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-int16_t_with_complexity (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.11.2.138 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int32_t (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.11.2.139 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-int32_t_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.11.2.140 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int64_t (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.11.2.141 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-int64_t_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.11.2.142 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_int8_t (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.11.2.143 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-int8_t_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.11.2.144 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_long_double (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.11.2.145 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.11.2.146 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.11.2.147 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.11.2.148 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.11.2.149 int ppl_new_BD_Shape_long_double_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.11.2.150 int ppl_new_BD_Shape_long_double_from_Rational_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.11.2.151 int ppl_new_BD_Shape_long_double_from_Rational_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.11.2.152 int ppl_new_BD_Shape_long_double_from_space_dimension (ppl_BD_Shape_long_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.11.2.153 int ppl_new_BD_Shape_long_double_from_Uint16_Box (ppl_-BD_Shape_long_double_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.11.2.154 int ppl_new_BD_Shape_long_double_from_Uint16_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.11.2.155 int ppl_new_BD_Shape_long_double_from_Uint32_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.11.2.156 int ppl_new_BD_Shape_long_double_from_Uint32_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.11.2.157 int ppl_new_BD_Shape_long_double_from_Uint64_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.11.2.158 int ppl_new_BD_Shape_long_double_from_Uint64_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.11.2.159 int ppl_new_BD_Shape_long_double_from_Uint8_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.11.2.160 int ppl_new_BD_Shape_long_double_from_Uint8_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.11.2.161 int ppl_new_BD_Shape_long_double_from_Z_Box (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.11.2.162 int ppl_new_BD_Shape_long_double_from_Z_Box_with_complexity (ppl_BD_Shape_long_double_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.11.2.163 int ppl_new_BD_Shape_long_double_recycle_Congruence_System (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_Congruence_System_t *cs*) [related]

10.11.2.164 int ppl_new_BD_Shape_long_double_recycle_Constraint_System (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_Constraint_System_t *cs*) [related]

10.11.2.165 int ppl_new_BD_Shape_long_double_recycle_Generator_System (ppl_BD_Shape_long_double_t ∗ *pph*, ppl_Generator_System_t *cs*) [related]

10.11.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *pset*, ppl_Generator_t *point*) [related]

10.11.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_long_double_2 (ppl_const_-BD_Shape_long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.11.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *pset*, ppl_Generator_t *point*) [related]

10.11.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_long_double_2 (ppl_const_BD_-Shape_long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.11.2.170 int ppl_termination_test_MS_BD_Shape_long_double (ppl_const_BD_Shape_long_-double_t *pset*) [related]

10.11.2.171 int ppl_termination_test_MS_BD_Shape_long_double_2 (ppl_const_BD_Shape_-long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*) [related]

10.11.2.172 int ppl_termination_test_PR_BD_Shape_long_double (ppl_const_BD_Shape_long_double_t *pset*) [related]

10.11.2.173 int ppl_termination_test_PR_BD_Shape_long_double_2 (ppl_const_BD_Shape_long_double_t *pset_before*, ppl_const_BD_Shape_long_double_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.12 ppl_BD_Shape_mpq_class_tag Interface Reference

Types and functions for ppl_BD_Shape_mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_mpq_class_from_space_dimension (ppl_BD_Shape_mpq_class_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_mpq_class_from_Int8_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Int16_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Int32_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Int64_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Uint8_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Uint16_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Uint32_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Uint64_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Z_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Rational_Box (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int8_t (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int16_t (ppl_BD_Shape_mpq_class_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)

- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int32_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int64_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int8_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int16_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int32_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int64_t (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_mpq_class_from_C_Polyhedron (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_mpq_class_from_NNC_Polyhedron (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Grid (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Float_Box (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_float (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_float (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Double_Box (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_double (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_double (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Long_Double_Box (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_long_double (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_long_double (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_mpq_class_from_Int8_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Int16_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Int32_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Int64_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Int64_Box_t ph, int complexity)

- int ppl_new_BD_Shape_mpq_class_from_Uint8_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Uint16_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Uint32_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Uint64_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Z_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Rational_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_C_Polyhedron_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Grid_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Float_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_float_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Double_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_double_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)

- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Long_Double_Box_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpq_class_from_Constraint_System (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_BD_Shape_mpq_class_from_Congruence_System (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_mpq_class_from_Generator_System (ppl_BD_Shape_mpq_class_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_mpq_class_space_dimension (ppl_const_BD_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_mpq_class_affine_dimension (ppl_const_BD_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_mpq_class_relation_with_Constraint (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpq_class_relation_with_Generator (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_mpq_class_relation_with_Congruence (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpq_class_get_constraints (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_mpq_class_get_congruences (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_mpq_class_get_minimized_constraints (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_mpq_class_get_minimized_congruences (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_mpq_class_is_empty (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_is_universe (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_is_bounded (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_contains_integer_point (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_is_topologically_closed (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_is_discrete (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_topological_closure_assign (ppl_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_bounds_from_above (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_mpq_class_bounds_from_below (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_mpq_class_maximize (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_mpq_class_minimize (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_mpq_class_maximize_with_point (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_BD_Shape_mpq_class_minimize_with_point (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_mpq_class_frequency (ppl_const_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_mpq_class_contains_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_strictly_contains_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_is_disjoint_from_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_equals_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_OK (ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_BD_Shape_mpq_class_add_constraint (ppl_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpq_class_add_congruence (ppl_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpq_class_add_constraints (ppl_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_add_congruences (ppl_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_mpq_class_refine_with_constraint (ppl_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpq_class_refine_with_congruence (ppl_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpq_class_refine_with_constraints (ppl_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_refine_with_congruences (ppl_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_mpq_class_intersection_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_upper_bound_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_difference_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_concatenate_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_time_elapse_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_upper_bound_assign_if_exact (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_simplify_using_context_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_constrains (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_mpq_class_unconstrain_space_dimension (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_mpq_class_unconstrain_space_dimensions (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_BD_Shape_mpq_class_affine_image (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_affine_preimage (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_bounded_affine_image (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_bounded_affine_preimage (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_generalized_affine_image (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_generalized_affine_preimage (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_mpq_class_add_space_dimensions_and_embed (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpq_class_add_space_dimensions_and_project (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpq_class_remove_space_dimensions (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_mpq_class_remove_higher_space_dimensions (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpq_class_expand_space_dimension (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_mpq_class_fold_space_dimensions (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_mpq_class_map_space_dimensions (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_mpq_class_drop_some_non_integer_points (ppl_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_BD_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_mpq_class_external_memory_in_bytes (ppl_const_BD_Shape_mpq_class_t ps, size_t *sz)
- int ppl_BD_Shape_mpq_class_total_memory_in_bytes (ppl_const_BD_Shape_mpq_class_t ps, size_t *sz)
- int ppl_BD_Shape_mpq_class_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, unsigned *tp)
- int ppl_BD_Shape_mpq_class_H79_widening_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, unsigned *tp)
- int ppl_BD_Shape_mpq_class_BHMZ05_widening_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_H79_widening_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)

- int ppl_BD_Shape_mpq_class_widening_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, unsigned *tp)
- int ppl_BD_Shape_mpq_class_widening_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_mpq_class_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_mpq_class_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_BD_Shape_mpq_class_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_limited_H79_extrapolation_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_limited_CC76_extrapolation_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, unsigned *tp)
- int ppl_BD_Shape_mpq_class_CC76_extrapolation_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_CC76_narrowing_assign (ppl_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y)
- int ppl_BD_Shape_mpq_class_linear_partition (ppl_const_BD_Shape_mpq_class_t x, ppl_const_BD_Shape_mpq_class_t y, ppl_BD_Shape_mpq_class_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_BD_Shape_mpq_class_wrap_assign (ppl_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_mpq_class_recycle_Constraint_System (ppl_BD_Shape_mpq_class_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_mpq_class_recycle_Congruence_System (ppl_BD_Shape_mpq_class_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_mpq_class_recycle_Generator_System (ppl_BD_Shape_mpq_class_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpq_class_t dst, ppl_const_BD_Shape_mpq_class_t src)
- int ppl_BD_Shape_mpq_class_add_recycled_constraints (ppl_BD_Shape_mpq_class_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_mpq_class_add_recycled_congruences (ppl_BD_Shape_mpq_class_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset)
- int ppl_termination_test_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset, ppl_Polyhedron_t ph)

- int ppl_all_affine_ranking_functions_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after)
- int ppl_termination_test_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t pset_before, ppl_const_BD_Shape_mpq_class_t pset_after, ppl_Polyhedron_t ph)

10.12.1 Detailed Description

Types and functions for ppl_BD_Shape_mpq_class_tag.

10.12.2 Friends And Related Function Documentation

10.12.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.12.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.12.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.12.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.12.2.5 int ppl_assign_BD_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpq_class_t *dst*, ppl_const_BD_Shape_mpq_class_t *src*) `[related]`

10.12.2.6 int ppl_BD_Shape_mpq_class_add_congruence (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.12.2.7 int ppl_BD_Shape_mpq_class_add_congruences (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.12.2.8 int ppl_BD_Shape_mpq_class_add_constraint (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.12.2.9 int ppl_BD_Shape_mpq_class_add_constraints (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.10 int ppl_BD_Shape_mpq_class_add_recycled_congruences (ppl_BD_Shape_mpq_class_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.12.2.11 int ppl_BD_Shape_mpq_class_add_recycled_constraints (ppl_BD_Shape_mpq_class_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.12.2.12 int ppl_BD_Shape_mpq_class_add_space_dimensions_and_embed (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.12.2.13 int ppl_BD_Shape_mpq_class_add_space_dimensions_and_project (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.12.2.14 int ppl_BD_Shape_mpq_class_affine_dimension (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.12.2.15 int ppl_BD_Shape_mpq_class_affine_image (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.12.2.16 int ppl_BD_Shape_mpq_class_affine_preimage (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.12.2.17 int ppl_BD_Shape_mpq_class_BHMZ05_widening_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.18 int ppl_BD_Shape_mpq_class_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, unsigned * *tp*) [related]

10.12.2.19 int ppl_BD_Shape_mpq_class_bounded_affine_image (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.12.2.20 int ppl_BD_Shape_mpq_class_bounded_affine_preimage (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.12.2.21 int ppl_BD_Shape_mpq_class_bounds_from_above (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.12.2.22 int ppl_BD_Shape_mpq_class_bounds_from_below (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.12.2.23 int ppl_BD_Shape_mpq_class_CC76_extrapolation_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.24 int ppl_BD_Shape_mpq_class_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, unsigned * *tp*) [related]

10.12.2.25 int ppl_BD_Shape_mpq_class_CC76_narrowing_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.26 int ppl_BD_Shape_mpq_class_concatenate_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.27 int ppl_BD_Shape_mpq_class_constrains (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.12.2.28 int ppl_BD_Shape_mpq_class_contains_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.29 int ppl_BD_Shape_mpq_class_contains_integer_point (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.30 int ppl_BD_Shape_mpq_class_difference_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.31 int ppl_BD_Shape_mpq_class_drop_some_non_integer_points (ppl_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.12.2.32 int ppl_BD_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.12.2.33 int ppl_BD_Shape_mpq_class_equals_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.34 int ppl_BD_Shape_mpq_class_expand_space_dimension (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.12.2.35 int ppl_BD_Shape_mpq_class_external_memory_in_bytes (ppl_const_BD_Shape_mpq_class_t *ps*, size_t * *sz*) [related]

10.12.2.36 int ppl_BD_Shape_mpq_class_fold_space_dimensions (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.12.2.37 int ppl_BD_Shape_mpq_class_frequency (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.12.2.38 int ppl_BD_Shape_mpq_class_generalized_affine_image (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.12.2.39 int ppl_BD_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.12.2.40 int ppl_BD_Shape_mpq_class_generalized_affine_preimage (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.12.2.41 int ppl_BD_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.12.2.42 int ppl_BD_Shape_mpq_class_get_congruences (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.12.2.43 int ppl_BD_Shape_mpq_class_get_constraints (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.12.2.44 int ppl_BD_Shape_mpq_class_get_minimized_congruences (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.12.2.45 int ppl_BD_Shape_mpq_class_get_minimized_constraints (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.12.2.46 int ppl_BD_Shape_mpq_class_H79_widening_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.47 int ppl_BD_Shape_mpq_class_H79_widening_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, unsigned * *tp*) [related]

10.12.2.48 int ppl_BD_Shape_mpq_class_intersection_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.49 int ppl_BD_Shape_mpq_class_is_bounded (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.50 int ppl_BD_Shape_mpq_class_is_discrete (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.51 int ppl_BD_Shape_mpq_class_is_disjoint_from_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.52 int ppl_BD_Shape_mpq_class_is_empty (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.53 int ppl_BD_Shape_mpq_class_is_topologically_closed (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.54 int ppl_BD_Shape_mpq_class_is_universe (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.55 int ppl_BD_Shape_mpq_class_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.56 int ppl_BD_Shape_mpq_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.12.2.57 int ppl_BD_Shape_mpq_class_limited_CC76_extrapolation_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.58 int ppl_BD_Shape_mpq_class_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.12.2.59 int ppl_BD_Shape_mpq_class_limited_H79_extrapolation_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.60 int ppl_BD_Shape_mpq_class_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.12.2.61 int ppl_BD_Shape_mpq_class_linear_partition (ppl_const_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, ppl_BD_Shape_mpq_class_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.12.2.62 int ppl_BD_Shape_mpq_class_map_space_dimensions (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.12.2.63 int ppl_BD_Shape_mpq_class_maximize (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.12.2.64 int ppl_BD_Shape_mpq_class_maximize_with_point (ppl_const_BD_Shape_-mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.12.2.65 int ppl_BD_Shape_mpq_class_minimize (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.12.2.66 int ppl_BD_Shape_mpq_class_minimize_with_point (ppl_const_BD_Shape_-mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.12.2.67 int ppl_BD_Shape_mpq_class_OK (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.68 int ppl_BD_Shape_mpq_class_refine_with_congruence (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.12.2.69 int ppl_BD_Shape_mpq_class_refine_with_congruences (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.12.2.70 int ppl_BD_Shape_mpq_class_refine_with_constraint (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.12.2.71 int ppl_BD_Shape_mpq_class_refine_with_constraints (ppl_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.72 int ppl_BD_Shape_mpq_class_relation_with_Congruence (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.12.2.73 int ppl_BD_Shape_mpq_class_relation_with_Constraint (ppl_-const_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.12.2.74 int ppl_BD_Shape_mpq_class_relation_with_Generator (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.12.2.75 int ppl_BD_Shape_mpq_class_remove_higher_space_dimensions (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) `[related]`

10.12.2.76 int ppl_BD_Shape_mpq_class_remove_space_dimensions (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.12.2.77 int ppl_BD_Shape_mpq_class_simplify_using_context_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) `[related]`

10.12.2.78 int ppl_BD_Shape_mpq_class_space_dimension (ppl_const_BD_Shape_mpq_class_t *ph*, ppl_dimension_type ∗ *m*) `[related]`

10.12.2.79 int ppl_BD_Shape_mpq_class_strictly_contains_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) `[related]`

10.12.2.80 int ppl_BD_Shape_mpq_class_time_elapse_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) `[related]`

10.12.2.81 int ppl_BD_Shape_mpq_class_topological_closure_assign (ppl_BD_Shape_mpq_class_t *ph*) `[related]`

10.12.2.82 int ppl_BD_Shape_mpq_class_total_memory_in_bytes (ppl_const_BD_Shape_mpq_class_t *ps*, size_t ∗ *sz*) `[related]`

10.12.2.83 int ppl_BD_Shape_mpq_class_unconstrain_space_dimension (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.12.2.84 int ppl_BD_Shape_mpq_class_unconstrain_space_dimensions (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.12.2.85 int ppl_BD_Shape_mpq_class_upper_bound_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.86 int ppl_BD_Shape_mpq_class_upper_bound_assign_if_exact (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.87 int ppl_BD_Shape_mpq_class_widening_assign (ppl_BD_Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*) [related]

10.12.2.88 int ppl_BD_Shape_mpq_class_widening_assign_with_tokens (ppl_BD_-Shape_mpq_class_t *x*, ppl_const_BD_Shape_mpq_class_t *y*, unsigned ∗ *tp*) [related]

10.12.2.89 int ppl_BD_Shape_mpq_class_wrap_assign (ppl_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.12.2.90 int ppl_delete_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.91 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_double (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.12.2.92 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_double_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.12.2.93 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_float (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.12.2.94 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_float_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.12.2.95 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int16_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.12.2.96 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.12.2.97 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int32_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.12.2.98 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.12.2.99 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int64_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.12.2.100 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.12.2.101 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int8_t (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.12.2.102 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.12.2.103 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_long_double (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.12.2.104 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.12.2.105 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.12.2.106 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.12.2.107 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpq_class_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.12.2.108 int ppl_new_BD_Shape_mpq_class_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.12.2.109 int ppl_new_BD_Shape_mpq_class_from_C_Polyhedron (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.12.2.110 int ppl_new_BD_Shape_mpq_class_from_C_Polyhedron_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.12.2.111 int ppl_new_BD_Shape_mpq_class_from_Congruence_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.12.2.112 int ppl_new_BD_Shape_mpq_class_from_Constraint_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.12.2.113 int ppl_new_BD_Shape_mpq_class_from_Double_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.12.2.114 int ppl_new_BD_Shape_mpq_class_from_Double_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.12.2.115 int ppl_new_BD_Shape_mpq_class_from_Float_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.12.2.116 int ppl_new_BD_Shape_mpq_class_from_Float_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.12.2.117 int ppl_new_BD_Shape_mpq_class_from_Generator_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.12.2.118 int ppl_new_BD_Shape_mpq_class_from_Grid (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.12.2.119 int ppl_new_BD_Shape_mpq_class_from_Grid_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.12.2.120 int ppl_new_BD_Shape_mpq_class_from_Int16_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.12.2.121 int ppl_new_BD_Shape_mpq_class_from_Int16_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.12.2.122 int ppl_new_BD_Shape_mpq_class_from_Int32_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.12.2.123 int ppl_new_BD_Shape_mpq_class_from_Int32_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.12.2.124 int ppl_new_BD_Shape_mpq_class_from_Int64_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.12.2.125 int ppl_new_BD_Shape_mpq_class_from_Int64_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.12.2.126 int ppl_new_BD_Shape_mpq_class_from_Int8_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.12.2.127 int ppl_new_BD_Shape_mpq_class_from_Int8_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.12.2.128 int ppl_new_BD_Shape_mpq_class_from_Long_Double_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.12.2.129 int ppl_new_BD_Shape_mpq_class_from_Long_Double_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.12.2.130 int ppl_new_BD_Shape_mpq_class_from_NNC_Polyhedron (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.12.2.131 int ppl_new_BD_Shape_mpq_class_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.12.2.132 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_double (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.12.2.133 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.12.2.134 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_float (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.12.2.135 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.12.2.136 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int16_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.12.2.137 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.12.2.138 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int32_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.12.2.139 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.12.2.140 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int64_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) `[related]`

10.12.2.141 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) `[related]`

10.12.2.142 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int8_t (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.12.2.143 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) `[related]`

10.12.2.144 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_long_double (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) `[related]`

10.12.2.145 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) `[related]`

10.12.2.146 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.12.2.147 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) `[related]`

10.12.2.148 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.12.2.149 int ppl_new_BD_Shape_mpq_class_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.12.2.150 int ppl_new_BD_Shape_mpq_class_from_Rational_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.12.2.151 int ppl_new_BD_Shape_mpq_class_from_Rational_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.12.2.152 int ppl_new_BD_Shape_mpq_class_from_space_dimension (ppl_BD_Shape_mpq_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.12.2.153 int ppl_new_BD_Shape_mpq_class_from_Uint16_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.12.2.154 int ppl_new_BD_Shape_mpq_class_from_Uint16_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.12.2.155 int ppl_new_BD_Shape_mpq_class_from_Uint32_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.12.2.156 int ppl_new_BD_Shape_mpq_class_from_Uint32_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.12.2.157 int ppl_new_BD_Shape_mpq_class_from_Uint64_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.12.2.158 int ppl_new_BD_Shape_mpq_class_from_Uint64_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.12.2.159 int ppl_new_BD_Shape_mpq_class_from_Uint8_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.12.2.160 int ppl_new_BD_Shape_mpq_class_from_Uint8_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.12.2.161 int ppl_new_BD_Shape_mpq_class_from_Z_Box (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.12.2.162 int ppl_new_BD_Shape_mpq_class_from_Z_Box_with_complexity (ppl_BD_Shape_mpq_class_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.12.2.163 int ppl_new_BD_Shape_mpq_class_recycle_Congruence_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.12.2.164 int ppl_new_BD_Shape_mpq_class_recycle_Constraint_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.12.2.165 int ppl_new_BD_Shape_mpq_class_recycle_Generator_System (ppl_BD_Shape_mpq_class_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.12.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*, ppl_Generator_t *point*) [related]

10.12.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.12.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*, ppl_Generator_t *point*) [related]

10.12.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.12.2.170 int ppl_termination_test_MS_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*) [related]

10.12.2.171 int ppl_termination_test_MS_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*) [related]

10.12.2.172 int ppl_termination_test_PR_BD_Shape_mpq_class (ppl_const_BD_Shape_mpq_class_t *pset*) [related]

10.12.2.173 int ppl_termination_test_PR_BD_Shape_mpq_class_2 (ppl_const_BD_Shape_mpq_class_t *pset_before*, ppl_const_BD_Shape_mpq_class_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.13 ppl_BD_Shape_mpz_class_tag Interface Reference

Types and functions for ppl_BD_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_mpz_class_from_space_dimension (ppl_BD_Shape_mpz_class_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_BD_Shape_mpz_class_from_Int8_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Int8_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Int16_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Int16_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Int32_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Int32_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Int64_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Int64_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Uint8_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Uint8_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Uint16_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Uint16_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Uint32_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Uint32_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Uint64_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Uint64_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Z_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_-Z_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Rational_Box (ppl_BD_Shape_mpz_class_t ∗pph, ppl_-const_Rational_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int8_t (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int16_t (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int32_t (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int64_t (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpz_class_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int8_t (ppl_BD_Shape_mpz_class_-t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)

- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int16_t (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int32_t (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int64_t (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_BD_Shape_mpz_class_from_C_Polyhedron (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_mpz_class_from_NNC_Polyhedron (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Grid (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Grid_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Float_Box (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_float (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_float (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Double_Box (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_double (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_double (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Long_Double_Box (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_long_double (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_long_double (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_BD_Shape_mpz_class_from_Int8_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Int16_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Int32_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Int64_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Uint8_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Uint16_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Uint32_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Uint64_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Z_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Z_Box_t ph, int complexity)

- int ppl_new_BD_Shape_mpz_class_from_Rational_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_C_Polyhedron_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Grid_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Float_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_float_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Double_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_double_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Long_Double_Box_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_long_double_with_complexity (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_BD_Shape_mpz_class_from_Constraint_System (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Constraint_System_t cs)

- int ppl_new_BD_Shape_mpz_class_from_Congruence_System (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_BD_Shape_mpz_class_from_Generator_System (ppl_BD_Shape_mpz_class_t *pph, ppl_const_Generator_System_t cs)
- int ppl_BD_Shape_mpz_class_space_dimension (ppl_const_BD_Shape_mpz_class_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_mpz_class_affine_dimension (ppl_const_BD_Shape_mpz_class_t ph, ppl_dimension_type *m)
- int ppl_BD_Shape_mpz_class_relation_with_Constraint (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpz_class_relation_with_Generator (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Generator_t c)
- int ppl_BD_Shape_mpz_class_relation_with_Congruence (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpz_class_get_constraints (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_mpz_class_get_congruences (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_mpz_class_get_minimized_constraints (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_BD_Shape_mpz_class_get_minimized_congruences (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_BD_Shape_mpz_class_is_empty (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_is_universe (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_is_bounded (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_contains_integer_point (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_is_topologically_closed (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_is_discrete (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_topological_closure_assign (ppl_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_bounds_from_above (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_mpz_class_bounds_from_below (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_BD_Shape_mpz_class_maximize (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_mpz_class_minimize (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_BD_Shape_mpz_class_maximize_with_point (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_mpz_class_minimize_with_point (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_BD_Shape_mpz_class_frequency (ppl_const_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_BD_Shape_mpz_class_contains_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_strictly_contains_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_is_disjoint_from_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)

- int ppl_BD_Shape_mpz_class_equals_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_OK (ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_BD_Shape_mpz_class_add_constraint (ppl_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpz_class_add_congruence (ppl_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpz_class_add_constraints (ppl_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_add_congruences (ppl_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_mpz_class_refine_with_constraint (ppl_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_BD_Shape_mpz_class_refine_with_congruence (ppl_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_BD_Shape_mpz_class_refine_with_constraints (ppl_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_refine_with_congruences (ppl_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_BD_Shape_mpz_class_intersection_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_upper_bound_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_difference_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_concatenate_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_time_elapse_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_upper_bound_assign_if_exact (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_simplify_using_context_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_constrains (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_mpz_class_unconstrain_space_dimension (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_BD_Shape_mpz_class_unconstrain_space_dimensions (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_mpz_class_affine_image (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpz_class_affine_preimage (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpz_class_bounded_affine_image (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpz_class_bounded_affine_preimage (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpz_class_generalized_affine_image (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_BD_Shape_mpz_class_generalized_affine_preimage (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_BD_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_BD_Shape_mpz_class_add_space_dimensions_and_embed (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpz_class_add_space_dimensions_and_project (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpz_class_remove_space_dimensions (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_BD_Shape_mpz_class_remove_higher_space_dimensions (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_BD_Shape_mpz_class_expand_space_dimension (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_BD_Shape_mpz_class_fold_space_dimensions (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_BD_Shape_mpz_class_map_space_dimensions (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_BD_Shape_mpz_class_drop_some_non_integer_points (ppl_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_BD_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_BD_Shape_mpz_class_external_memory_in_bytes (ppl_const_BD_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_BD_Shape_mpz_class_total_memory_in_bytes (ppl_const_BD_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_BD_Shape_mpz_class_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_H79_widening_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_BHMZ05_widening_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_H79_widening_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_widening_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_widening_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_BD_Shape_mpz_class_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_limited_H79_extrapolation_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_limited_CC76_extrapolation_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_BD_Shape_mpz_class_CC76_extrapolation_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_CC76_narrowing_assign (ppl_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y)
- int ppl_BD_Shape_mpz_class_linear_partition (ppl_const_BD_Shape_mpz_class_t x, ppl_const_BD_Shape_mpz_class_t y, ppl_BD_Shape_mpz_class_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_BD_Shape_mpz_class_wrap_assign (ppl_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_BD_Shape_mpz_class_recycle_Constraint_System (ppl_BD_Shape_mpz_class_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_BD_Shape_mpz_class_recycle_Congruence_System (ppl_BD_Shape_mpz_class_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_BD_Shape_mpz_class_recycle_Generator_System (ppl_BD_Shape_mpz_class_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpz_class_t dst, ppl_const_BD_Shape_mpz_class_t src)
- int ppl_BD_Shape_mpz_class_add_recycled_constraints (ppl_BD_Shape_mpz_class_t ph, ppl_Constraint_System_t cs)
- int ppl_BD_Shape_mpz_class_add_recycled_congruences (ppl_BD_Shape_mpz_class_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset)
- int ppl_termination_test_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset)
- int ppl_one_affine_ranking_function_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after)
- int ppl_termination_test_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after)
- int ppl_one_affine_ranking_function_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t pset_before, ppl_const_BD_Shape_mpz_class_t pset_after, ppl_Polyhedron_t ph)

10.13.1 Detailed Description

Types and functions for ppl_BD_Shape_mpz_class_tag.

10.13.2 Friends And Related Function Documentation

10.13.2.1 int ppl_all_affine_ranking_functions_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.13.2.2 int ppl_all_affine_ranking_functions_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.13.2.3 int ppl_all_affine_ranking_functions_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.13.2.4 int ppl_all_affine_ranking_functions_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.13.2.5 int ppl_assign_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpz_class_t *dst*, ppl_const_BD_Shape_mpz_class_t *src*) [related]

10.13.2.6 int ppl_BD_Shape_mpz_class_add_congruence (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.13.2.7 int ppl_BD_Shape_mpz_class_add_congruences (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.13.2.8 int ppl_BD_Shape_mpz_class_add_constraint (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.13.2.9 int ppl_BD_Shape_mpz_class_add_constraints (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.10 int ppl_BD_Shape_mpz_class_add_recycled_congruences (ppl_BD_Shape_mpz_class_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.13.2.11 int ppl_BD_Shape_mpz_class_add_recycled_constraints (ppl_BD_Shape_mpz_class_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.13.2.12 int ppl_BD_Shape_mpz_class_add_space_dimensions_and_embed (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.13.2.13 int ppl_BD_Shape_mpz_class_add_space_dimensions_and_project (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.13.2.14 int ppl_BD_Shape_mpz_class_affine_dimension (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.13.2.15 int ppl_BD_Shape_mpz_class_affine_image (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.13.2.16 int ppl_BD_Shape_mpz_class_affine_preimage (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.13.2.17 int ppl_BD_Shape_mpz_class_BHMZ05_widening_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.18 int ppl_BD_Shape_mpz_class_BHMZ05_widening_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, unsigned ∗ *tp*) [related]

10.13.2.19 int ppl_BD_Shape_mpz_class_bounded_affine_image (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.13.2.20 int ppl_BD_Shape_mpz_class_bounded_affine_preimage (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.13.2.21 int ppl_BD_Shape_mpz_class_bounds_from_above (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.13.2.22 int ppl_BD_Shape_mpz_class_bounds_from_below (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.13.2.23 int ppl_BD_Shape_mpz_class_CC76_extrapolation_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.24 int ppl_BD_Shape_mpz_class_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, unsigned ∗ *tp*) [related]

10.13.2.25 int ppl_BD_Shape_mpz_class_CC76_narrowing_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.26 int ppl_BD_Shape_mpz_class_concatenate_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.27 int ppl_BD_Shape_mpz_class_constrains (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.13.2.28 int ppl_BD_Shape_mpz_class_contains_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.29 int ppl_BD_Shape_mpz_class_contains_integer_point (ppl_const_BD_Shape_mpz_-class_t *ph*) [related]

10.13.2.30 int ppl_BD_Shape_mpz_class_difference_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.31 int ppl_BD_Shape_mpz_class_drop_some_non_integer_points (ppl_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.13.2.32 int ppl_BD_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.13.2.33 int ppl_BD_Shape_mpz_class_equals_BD_Shape_mpz_class (ppl_-const_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.34 int ppl_BD_Shape_mpz_class_expand_space_dimension (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.13.2.35 int ppl_BD_Shape_mpz_class_external_memory_in_bytes (ppl_const_BD_Shape_mpz_class_t *ps*, size_t ∗ *sz*) [related]

10.13.2.36 int ppl_BD_Shape_mpz_class_fold_space_dimensions (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.13.2.37 int ppl_BD_Shape_mpz_class_frequency (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.13.2.38 int ppl_BD_Shape_mpz_class_generalized_affine_image (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.13.2.39 int ppl_BD_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.13.2.40 int ppl_BD_Shape_mpz_class_generalized_affine_preimage (ppl_BD_Shape_mpz_-class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.13.2.41 int ppl_BD_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.13.2.42 int ppl_BD_Shape_mpz_class_get_congruences (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.13.2.43 int ppl_BD_Shape_mpz_class_get_constraints (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.13.2.44 int ppl_BD_Shape_mpz_class_get_minimized_congruences (ppl_const_-BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.13.2.45 int ppl_BD_Shape_mpz_class_get_minimized_constraints (ppl_const_-BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.13.2.46 int ppl_BD_Shape_mpz_class_H79_widening_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.47 int ppl_BD_Shape_mpz_class_H79_widening_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, unsigned * *tp*) [related]

10.13.2.48 int ppl_BD_Shape_mpz_class_intersection_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.49 int ppl_BD_Shape_mpz_class_is_bounded (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.50 int ppl_BD_Shape_mpz_class_is_discrete (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.51 int ppl_BD_Shape_mpz_class_is_disjoint_from_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.52 int ppl_BD_Shape_mpz_class_is_empty (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.53 int ppl_BD_Shape_mpz_class_is_topologically_closed (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.54 int ppl_BD_Shape_mpz_class_is_universe (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.55 int ppl_BD_Shape_mpz_class_limited_BHMZ05_extrapolation_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.56 int ppl_BD_Shape_mpz_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.13.2.57 int ppl_BD_Shape_mpz_class_limited_CC76_extrapolation_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.58 int ppl_BD_Shape_mpz_class_limited_CC76_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.13.2.59 int ppl_BD_Shape_mpz_class_limited_H79_extrapolation_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.60 int ppl_BD_Shape_mpz_class_limited_H79_extrapolation_assign_with_tokens (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.13.2.61 int ppl_BD_Shape_mpz_class_linear_partition (ppl_const_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, ppl_BD_Shape_mpz_class_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.13.2.62 int ppl_BD_Shape_mpz_class_map_space_dimensions (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.13.2.63 int ppl_BD_Shape_mpz_class_maximize (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.13.2.64 int ppl_BD_Shape_mpz_class_maximize_with_point (ppl_const_BD_Shape_-mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.13.2.65 int ppl_BD_Shape_mpz_class_minimize (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.13.2.66 int ppl_BD_Shape_mpz_class_minimize_with_point (ppl_const_BD_Shape_-mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.13.2.67 int ppl_BD_Shape_mpz_class_OK (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.68 int ppl_BD_Shape_mpz_class_refine_with_congruence (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.13.2.69 int ppl_BD_Shape_mpz_class_refine_with_congruences (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.13.2.70 int ppl_BD_Shape_mpz_class_refine_with_constraint (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.13.2.71 int ppl_BD_Shape_mpz_class_refine_with_constraints (ppl_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.72 int ppl_BD_Shape_mpz_class_relation_with_Congruence (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.13.2.73 int ppl_BD_Shape_mpz_class_relation_with_Constraint (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.13.2.74 int ppl_BD_Shape_mpz_class_relation_with_Generator (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.13.2.75 int ppl_BD_Shape_mpz_class_remove_higher_space_dimensions (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.13.2.76 int ppl_BD_Shape_mpz_class_remove_space_dimensions (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.13.2.77 int ppl_BD_Shape_mpz_class_simplify_using_context_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.78 int ppl_BD_Shape_mpz_class_space_dimension (ppl_const_BD_Shape_mpz_class_t *ph*, ppl_dimension_type * *m*) [related]

10.13.2.79 int ppl_BD_Shape_mpz_class_strictly_contains_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.80 int ppl_BD_Shape_mpz_class_time_elapse_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.81 int ppl_BD_Shape_mpz_class_topological_closure_assign (ppl_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.82 int ppl_BD_Shape_mpz_class_total_memory_in_bytes (ppl_const_BD_Shape_mpz_class_t *ps*, size_t * *sz*) [related]

10.13.2.83 int ppl_BD_Shape_mpz_class_unconstrain_space_dimension (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.13.2.84 int ppl_BD_Shape_mpz_class_unconstrain_space_dimensions (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.13.2.85 int ppl_BD_Shape_mpz_class_upper_bound_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.86 int ppl_BD_Shape_mpz_class_upper_bound_assign_if_exact (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.87 int ppl_BD_Shape_mpz_class_widening_assign (ppl_BD_Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*) [related]

10.13.2.88 int ppl_BD_Shape_mpz_class_widening_assign_with_tokens (ppl_BD_-Shape_mpz_class_t *x*, ppl_const_BD_Shape_mpz_class_t *y*, unsigned ∗ *tp*) [related]

10.13.2.89 int ppl_BD_Shape_mpz_class_wrap_assign (ppl_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.13.2.90 int ppl_delete_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.91 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_double (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.13.2.92 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_double_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.13.2.93 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_float (ppl_-BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.13.2.94 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_float_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.13.2.95 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int16_t (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.13.2.96 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int16_t_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.13.2.97 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int32_t (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.13.2.98 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int32_t_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.13.2.99 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int64_t (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.13.2.100 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int64_t_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.13.2.101 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int8_t (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.13.2.102 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_int8_t_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.13.2.103 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_long_double (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.13.2.104 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_long_double_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.13.2.105 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpq_class (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.13.2.106 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpq_class_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.13.2.107 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.13.2.108 int ppl_new_BD_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.13.2.109 int ppl_new_BD_Shape_mpz_class_from_C_Polyhedron (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.13.2.110 int ppl_new_BD_Shape_mpz_class_from_C_Polyhedron_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.13.2.111 int ppl_new_BD_Shape_mpz_class_from_Congruence_System (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.13.2.112 int ppl_new_BD_Shape_mpz_class_from_Constraint_System (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.13.2.113 int ppl_new_BD_Shape_mpz_class_from_Double_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.13.2.114 int ppl_new_BD_Shape_mpz_class_from_Double_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.13.2.115 int ppl_new_BD_Shape_mpz_class_from_Float_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Float_Box_t *ph*) [related]

10.13.2.116 int ppl_new_BD_Shape_mpz_class_from_Float_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.13.2.117 int ppl_new_BD_Shape_mpz_class_from_Generator_System (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Generator_System_t *cs*) [related]

10.13.2.118 int ppl_new_BD_Shape_mpz_class_from_Grid (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Grid_t *ph*) [related]

10.13.2.119 int ppl_new_BD_Shape_mpz_class_from_Grid_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.13.2.120 int ppl_new_BD_Shape_mpz_class_from_Int16_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.13.2.121 int ppl_new_BD_Shape_mpz_class_from_Int16_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.13.2.122 int ppl_new_BD_Shape_mpz_class_from_Int32_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.13.2.123 int ppl_new_BD_Shape_mpz_class_from_Int32_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.13.2.124 int ppl_new_BD_Shape_mpz_class_from_Int64_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.13.2.125 int ppl_new_BD_Shape_mpz_class_from_Int64_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.13.2.126 int ppl_new_BD_Shape_mpz_class_from_Int8_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.13.2.127 int ppl_new_BD_Shape_mpz_class_from_Int8_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.13.2.128 int ppl_new_BD_Shape_mpz_class_from_Long_Double_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.13.2.129 int ppl_new_BD_Shape_mpz_class_from_Long_Double_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.13.2.130 int ppl_new_BD_Shape_mpz_class_from_NNC_Polyhedron (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.13.2.131 int ppl_new_BD_Shape_mpz_class_from_NNC_Polyhedron_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.13.2.132 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_double (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.13.2.133 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_double_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.13.2.134 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_float (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.13.2.135 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_float_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) `[related]`

10.13.2.136 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int16_t (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) `[related]`

10.13.2.137 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) `[related]`

10.13.2.138 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int32_t (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) `[related]`

10.13.2.139 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) `[related]`

10.13.2.140 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int64_t (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) `[related]`

10.13.2.141 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) `[related]`

10.13.2.142 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int8_t (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.13.2.143 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.13.2.144 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_long_double (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.13.2.145 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_-long_double_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.13.2.146 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpq_class (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.13.2.147 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.13.2.148 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.13.2.149 int ppl_new_BD_Shape_mpz_class_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.13.2.150 int ppl_new_BD_Shape_mpz_class_from_Rational_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.13.2.151 int ppl_new_BD_Shape_mpz_class_from_Rational_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.13.2.152 int ppl_new_BD_Shape_mpz_class_from_space_dimension (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.13.2.153 int ppl_new_BD_Shape_mpz_class_from_Uint16_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.13.2.154 int ppl_new_BD_Shape_mpz_class_from_Uint16_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.13.2.155 int ppl_new_BD_Shape_mpz_class_from_Uint32_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.13.2.156 int ppl_new_BD_Shape_mpz_class_from_Uint32_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.13.2.157 int ppl_new_BD_Shape_mpz_class_from_Uint64_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.13.2.158 int ppl_new_BD_Shape_mpz_class_from_Uint64_Box_with_complexity (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.13.2.159 int ppl_new_BD_Shape_mpz_class_from_Uint8_Box (ppl_BD_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.13.2.160 int ppl_new_BD_Shape_mpz_class_from_Uint8_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.13.2.161 int ppl_new_BD_Shape_mpz_class_from_Z_Box (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.13.2.162 int ppl_new_BD_Shape_mpz_class_from_Z_Box_with_complexity (ppl_BD_Shape_mpz_class_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.13.2.163 int ppl_new_BD_Shape_mpz_class_recycle_Congruence_System (ppl_BD_Shape_mpz_class_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.13.2.164 int ppl_new_BD_Shape_mpz_class_recycle_Constraint_System (ppl_BD_Shape_mpz_class_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.13.2.165 int ppl_new_BD_Shape_mpz_class_recycle_Generator_System (ppl_BD_Shape_mpz_class_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.13.2.166 int ppl_one_affine_ranking_function_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*, ppl_Generator_t *point*) [related]

10.13.2.167 int ppl_one_affine_ranking_function_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.13.2.168 int ppl_one_affine_ranking_function_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*, ppl_Generator_t *point*) [related]

10.13.2.169 int ppl_one_affine_ranking_function_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*, ppl_Generator_t *point*) `[related]`

10.13.2.170 int ppl_termination_test_MS_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*) `[related]`

10.13.2.171 int ppl_termination_test_MS_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*) `[related]`

10.13.2.172 int ppl_termination_test_PR_BD_Shape_mpz_class (ppl_const_BD_Shape_mpz_class_t *pset*) `[related]`

10.13.2.173 int ppl_termination_test_PR_BD_Shape_mpz_class_2 (ppl_const_BD_Shape_mpz_class_t *pset_before*, ppl_const_BD_Shape_mpz_class_t *pset_after*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.14 ppl_Coefficient_tag Interface Reference

Types and functions for coefficients.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Coefficient (ppl_Coefficient_t ∗pc)
  Creates a new coefficient with value 0 and writes a handle for the newly created coefficient at address `pc`.
- int ppl_new_Coefficient_from_mpz_t (ppl_Coefficient_t ∗pc, mpz_t z)
  Creates a new coefficient with the value given by the GMP integer `z` *and writes a handle for the newly created coefficient at address* `pc`.

- int ppl_new_Coefficient_from_Coefficient (ppl_Coefficient_t *pc, ppl_const_Coefficient_t c)

  Builds a coefficient that is a copy of `c`*; writes a handle for the newly created coefficient at address* `pc`*.*

- int ppl_assign_Coefficient_from_mpz_t (ppl_Coefficient_t dst, mpz_t z)

  Assign to `dst` *the value given by the GMP integer* `z`*.*

- int ppl_assign_Coefficient_from_Coefficient (ppl_Coefficient_t dst, ppl_const_Coefficient_t src)

  Assigns a copy of the coefficient `src` *to* `dst`*.*

- int ppl_delete_Coefficient (ppl_const_Coefficient_t c)

  Invalidates the handle `c`*: this makes sure the corresponding resources will eventually be released.*

Read-Only Accessor Functions

- int ppl_Coefficient_to_mpz_t (ppl_const_Coefficient_t c, mpz_t z)

  Sets the value of the GMP integer `z` *to the value of* `c`*.*

- int ppl_Coefficient_OK (ppl_const_Coefficient_t c)

  Returns a positive integer if `c` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `c` *is broken. Useful for debugging purposes.*

- int ppl_Coefficient_is_bounded (void)

  Returns a positive integer if coefficients are bounded; returns 0 otherwise.

- int ppl_Coefficient_min (mpz_t min)

  Returns a positive integer if coefficients are bounded, in which case `min` *is set to their minimum value; returns 0 otherwise.*

- int ppl_Coefficient_max (mpz_t max)

  Returns a positive integer if coefficients are bounded, in which case `max` *is set to their maximum value; returns 0 otherwise.*

10.14.1 Detailed Description

Types and functions for coefficients. The types and functions for coefficients provide an interface towards *Coefficient*. Depending on configuration, the PPL coefficients may be implemented by the unbounded precision integers provided by GMP (default), or by bounded precision integers (with checks for overflows).

10.14.2 Friends And Related Function Documentation

10.14.2.1 int ppl_assign_Coefficient_from_Coefficient (ppl_Coefficient_t *dst*, ppl_const_Coefficient_t *src*) `[related]`

Assigns a copy of the coefficient `src` to `dst`.

Definition at line 442 of file ppl_c_implementation_common.cc.

10.14.2.2 int ppl_assign_Coefficient_from_mpz_t (ppl_Coefficient_t *dst*, mpz_t *z*) [related]

Assign to `dst` the value given by the GMP integer `z`.

Definition at line 434 of file ppl_c_implementation_common.cc.

10.14.2.3 int ppl_Coefficient_is_bounded (void) [related]

Returns a positive integer if coefficients are bounded; returns 0 otherwise.

Definition at line 458 of file ppl_c_implementation_common.cc.

10.14.2.4 int ppl_Coefficient_max (mpz_t *max*) [related]

Returns a positive integer if coefficients are bounded, in which case `max` is set to their maximum value; returns 0 otherwise.

Definition at line 477 of file ppl_c_implementation_common.cc.

10.14.2.5 int ppl_Coefficient_min (mpz_t *min*) [related]

Returns a positive integer if coefficients are bounded, in which case `min` is set to their minimum value; returns 0 otherwise.

Definition at line 464 of file ppl_c_implementation_common.cc.

10.14.2.6 int ppl_Coefficient_OK (ppl_const_Coefficient_t *c*) [related]

Returns a positive integer if `c` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `c` is broken. Useful for debugging purposes.

Definition at line 452 of file ppl_c_implementation_common.cc.

10.14.2.7 int ppl_Coefficient_to_mpz_t (ppl_const_Coefficient_t *c*, mpz_t *z*) [related]

Sets the value of the GMP integer `z` to the value of `c`.

Definition at line 420 of file ppl_c_implementation_common.cc.

10.14.2.8 int ppl_delete_Coefficient (ppl_const_Coefficient_t *c*) [related]

Invalidates the handle `c:` this makes sure the corresponding resources will eventually be released.

Definition at line 427 of file ppl_c_implementation_common.cc.

10.14.2.9 int ppl_new_Coefficient (ppl_Coefficient_t * *pc*) `[related]`

Creates a new coefficient with value 0 and writes a handle for the newly created coefficient at address `pc`.

Definition at line 397 of file ppl_c_implementation_common.cc.

10.14.2.10 int ppl_new_Coefficient_from_Coefficient (ppl_Coefficient_t * *pc*, ppl_const_Coefficient_t *c*) `[related]`

Builds a coefficient that is a copy of `c`; writes a handle for the newly created coefficient at address `pc`.

Definition at line 411 of file ppl_c_implementation_common.cc.

10.14.2.11 int ppl_new_Coefficient_from_mpz_t (ppl_Coefficient_t * *pc*, mpz_t *z*) `[related]`

Creates a new coefficient with the value given by the GMP integer `z` and writes a handle for the newly created coefficient at address `pc`.

Definition at line 404 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.15 ppl_Congruence_System_const_iterator_tag Interface Reference

Types and functions for iterating on congruence systems.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t *pcit)
  Builds a new 'const iterator' and writes a handle to it at address `pcit`.
- int ppl_new_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t *pcit, ppl_const_Congruence_System_const_iterator_t cit)
  Builds a const iterator that is a copy of `cit`; writes a handle for the newly created const iterator at address `pcit`.

- int ppl_assign_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t dst, ppl_const_Congruence_System_const_iterator_t src)
  Assigns a copy of the const iterator `src` *to* `dst`.
- int ppl_delete_Congruence_System_const_iterator (ppl_const_Congruence_System_const_iterator_t cit)
  Invalidates the handle `cit` *: this makes sure the corresponding resources will eventually be released.*

Dereferencing, Incrementing and Equality Testing

- int ppl_Congruence_System_const_iterator_dereference (ppl_const_Congruence_System_const_iterator_t cit, ppl_const_Congruence_t *pc)
  Dereference `cit` *writing a const handle to the resulting congruence at address* `pc`.
- int ppl_Congruence_System_const_iterator_increment (ppl_Congruence_System_const_iterator_t cit)
  Increment `cit` *so that it "points" to the next congruence.*
- int ppl_Congruence_System_const_iterator_equal_test (ppl_const_Congruence_System_const_iterator_t x, ppl_const_Congruence_System_const_iterator_t y)
  Returns a positive integer if the iterators corresponding to `x` *and* `y` *are equal; returns 0 if they are different.*

10.15.1 Detailed Description

Types and functions for iterating on congruence systems. The types and functions for congruence systems iterators provide read-only access to the elements of a congruence system by interfacing *Congruence_System::const_iterator*.

10.15.2 Friends And Related Function Documentation

10.15.2.1 int ppl_assign_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t *dst*, ppl_const_Congruence_System_const_iterator_t *src*) [related]

Assigns a copy of the const iterator `src` to `dst`.

Definition at line 1496 of file ppl_c_implementation_common.cc.

10.15.2.2 int ppl_Congruence_System_const_iterator_dereference (ppl_const_Congruence_System_const_iterator_t *cit*, ppl_const_Congruence_t * *pc*) [related]

Dereference `cit` writing a const handle to the resulting congruence at address `pc`.

Definition at line 1527 of file ppl_c_implementation_common.cc.

10.15.2.3 int ppl_Congruence_System_const_iterator_equal_test (ppl_const_Congruence_System_const_iterator_t *x*, ppl_const_Congruence_System_const_iterator_t *y*) [related]

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

Definition at line 1547 of file ppl_c_implementation_common.cc.

10.15.2.4 int ppl_Congruence_System_const_iterator_increment (ppl_Congruence_System_const_iterator_t *cit*) [related]

Increment `cit` so that it "points" to the next congruence.

Definition at line 1538 of file ppl_c_implementation_common.cc.

10.15.2.5 int ppl_delete_Congruence_System_const_iterator (ppl_const_Congruence_System_const_iterator_t *cit*) [related]

Invalidates the handle `cit`: this makes sure the corresponding resources will eventually be released.

Definition at line 1487 of file ppl_c_implementation_common.cc.

10.15.2.6 int ppl_new_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t ∗ *pcit*) [related]

Builds a new 'const iterator' and writes a handle to it at address `pcit`.

Definition at line 1470 of file ppl_c_implementation_common.cc.

10.15.2.7 int ppl_new_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t ∗ *pcit*, ppl_const_Congruence_System_const_iterator_t *cit*) [related]

Builds a const iterator that is a copy of `cit`; writes a handle for the newly created const iterator at address `pcit`.

Definition at line 1478 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.16 ppl_Congruence_System_tag Interface Reference

Types and functions for congruence systems.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Congruence_System (ppl_Congruence_System_t *pcs)
  Builds an empty system of congruences and writes a handle to it at address `pcs`.
- int ppl_new_Congruence_System_zero_dim_empty (ppl_Congruence_System_t *pcs)
  Builds a zero-dimensional, unsatisfiable congruence system and writes a handle to it at address `pcs`.
- int ppl_new_Congruence_System_from_Congruence (ppl_Congruence_System_t *pcs, ppl_-const_Congruence_t c)
  Builds the singleton congruence system containing only a copy of congruence `c`*; writes a handle for the newly created system at address* `pcs`.
- int ppl_new_Congruence_System_from_Congruence_System (ppl_Congruence_System_t *pcs, ppl_const_Congruence_System_t cs)
  Builds a congruence system that is a copy of `cs`*; writes a handle for the newly created system at address* `pcs`.
- int ppl_assign_Congruence_System_from_Congruence_System (ppl_Congruence_System_t dst, ppl_const_Congruence_System_t src)
  Assigns a copy of the congruence system `src` *to* `dst`.
- int ppl_delete_Congruence_System (ppl_const_Congruence_System_t cs)
  Invalidates the handle `cs`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Congruence System

- int ppl_Congruence_System_space_dimension (ppl_const_Congruence_System_t cs, ppl_-dimension_type *m)
  Writes to `m` *the dimension of the vector space enclosing* `cs`.
- int ppl_Congruence_System_empty (ppl_const_Congruence_System_t cs)
  Returns a positive integer if `cs` *contains no (non-trivial) congruence; returns 0 otherwise.*
- int ppl_Congruence_System_begin (ppl_const_Congruence_System_t cs, ppl_Congruence_-System_const_iterator_t cit)
  Assigns to `cit` *a const iterator "pointing" to the beginning of the congruence system* `cs`.
- int ppl_Congruence_System_end (ppl_const_Congruence_System_t cs, ppl_Congruence_-System_const_iterator_t cit)
  Assigns to `cit` *a const iterator "pointing" past the end of the congruence system* `cs`.
- int ppl_Congruence_System_OK (ppl_const_Congruence_System_t cs)
  Returns a positive integer if `cs` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `cs` *is broken. Useful for debugging purposes.*

Functions that May Modify the Congruence System

- int ppl_Congruence_System_clear (ppl_Congruence_System_t cs)

Removes all the congruences from the congruence system `cs` *and sets its space dimension to 0.*

- int ppl_Congruence_System_insert_Congruence (ppl_Congruence_System_t cs, ppl_const_Congruence_t c)

  Inserts a copy of the congruence `c` *into* `cs`*; the space dimension is increased, if necessary.*

10.16.1 Detailed Description

Types and functions for congruence systems. The types and functions for congruence systems provide an interface towards *Congruence_System*.

10.16.2 Friends And Related Function Documentation

10.16.2.1 int ppl_assign_Congruence_System_from_Congruence_System (ppl_Congruence_System_t *dst*, ppl_const_Congruence_System_t *src*) [related]

Assigns a copy of the congruence system `src` to `dst`.

Definition at line 1419 of file ppl_c_implementation_common.cc.

10.16.2.2 int ppl_Congruence_System_begin (ppl_const_Congruence_System_t *cs*, ppl_Congruence_System_const_iterator_t *cit*) [related]

Assigns to `cit` a const iterator "pointing" to the beginning of the congruence system `cs`.

Definition at line 1506 of file ppl_c_implementation_common.cc.

10.16.2.3 int ppl_Congruence_System_clear (ppl_Congruence_System_t *cs*) [related]

Removes all the congruences from the congruence system `cs` and sets its space dimension to 0.

Definition at line 1444 of file ppl_c_implementation_common.cc.

10.16.2.4 int ppl_Congruence_System_empty (ppl_const_Congruence_System_t *cs*) [related]

Returns a positive integer if `cs` contains no (non-trivial) congruence; returns 0 otherwise.

Definition at line 1437 of file ppl_c_implementation_common.cc.

10.16.2.5 int ppl_Congruence_System_end (ppl_const_Congruence_System_t *cs*, ppl_Congruence_System_const_iterator_t *cit*) [related]

Assigns to `cit` a const iterator "pointing" past the end of the congruence system `cs`.

Definition at line 1516 of file ppl_c_implementation_common.cc.

10.16.2.6 int ppl_Congruence_System_insert_Congruence (ppl_Congruence_System_t *cs*, ppl_const_Congruence_t *c*) `[related]`

Inserts a copy of the congruence `c` into `cs`; the space dimension is increased, if necessary.

Definition at line 1451 of file ppl_c_implementation_common.cc.

10.16.2.7 int ppl_Congruence_System_OK (ppl_const_Congruence_System_t *cs*) `[related]`

Returns a positive integer if `cs` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `cs` is broken. Useful for debugging purposes.

Definition at line 1461 of file ppl_c_implementation_common.cc.

10.16.2.8 int ppl_Congruence_System_space_dimension (ppl_const_Congruence_System_t *cs*, ppl_dimension_type ∗ *m*) `[related]`

Writes to `m` the dimension of the vector space enclosing `cs`.

Definition at line 1428 of file ppl_c_implementation_common.cc.

10.16.2.9 int ppl_delete_Congruence_System (ppl_const_Congruence_System_t *cs*) `[related]`

Invalidates the handle `cs`: this makes sure the corresponding resources will eventually be released.

Definition at line 1411 of file ppl_c_implementation_common.cc.

10.16.2.10 int ppl_new_Congruence_System (ppl_Congruence_System_t ∗ *pcs*) `[related]`

Builds an empty system of congruences and writes a handle to it at address `pcs`.

Definition at line 1377 of file ppl_c_implementation_common.cc.

10.16.2.11 int ppl_new_Congruence_System_from_Congruence (ppl_Congruence_System_t ∗ *pcs*, ppl_const_Congruence_t *c*) `[related]`

Builds the singleton congruence system containing only a copy of congruence `c`; writes a handle for the newly created system at address `pcs`.

Definition at line 1393 of file ppl_c_implementation_common.cc.

10.16.2.12 int ppl_new_Congruence_System_from_Congruence_System (ppl_Congruence_System_t * *pcs*, ppl_const_Congruence_System_t *cs*) [related]

Builds a congruence system that is a copy of `cs`; writes a handle for the newly created system at address `pcs`.

Definition at line 1403 of file ppl_c_implementation_common.cc.

10.16.2.13 int ppl_new_Congruence_System_zero_dim_empty (ppl_Congruence_System_t * *pcs*) [related]

Builds a zero-dimensional, unsatisfiable congruence system and writes a handle to it at address `pcs`.

Definition at line 1384 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.17 ppl_Congruence_tag Interface Reference

Types and functions for congruences.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Congruence (ppl_Congruence_t *pc, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t m)

  Creates the new congruence $le = 0 \pmod{m}$ *and writes a handle for it at address* `pc`*. The space dimension of the new congruence is equal to the space dimension of* `le`*.*

- int ppl_new_Congruence_zero_dim_false (ppl_Congruence_t *pc)

  Creates the unsatisfiable (zero-dimension space) congruence $0 = 1 \pmod{0}$ *and writes a handle for it at address* `pc`*.*

- int ppl_new_Congruence_zero_dim_integrality (ppl_Congruence_t *pc)

  Creates the true (zero-dimension space) congruence $0 = 1 \pmod{1}$*, also known as integrality congruence. A handle for the newly created congruence is written at address* `pc`*.*

- int ppl_new_Congruence_from_Congruence (ppl_Congruence_t *pc, ppl_const_Congruence_t c)

  Builds a congruence that is a copy of `c`*; writes a handle for the newly created congruence at address* `pc`*.*

- int ppl_assign_Congruence_from_Congruence (ppl_Congruence_t dst, ppl_const_Congruence_t src)

Assigns a copy of the congruence `src` *to* `dst`*.*

- int ppl_delete_Congruence (ppl_const_Congruence_t c)

  Invalidates the handle `c`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Congruence

- int ppl_Congruence_space_dimension (ppl_const_Congruence_t c, ppl_dimension_type *m)

  Writes to `m` *the space dimension of* `c`*.*

- int ppl_Congruence_coefficient (ppl_const_Congruence_t c, ppl_dimension_type var, ppl_Coefficient_t n)

  Copies into `n` *the coefficient of variable* `var` *in congruence* `c`*.*

- int ppl_Congruence_inhomogeneous_term (ppl_const_Congruence_t c, ppl_Coefficient_t n)

  Copies into `n` *the inhomogeneous term of congruence* `c`*.*

- int ppl_Congruence_modulus (ppl_const_Congruence_t c, ppl_Coefficient_t m)

  Copies into `m` *the modulus of congruence* `c`*.*

- int ppl_Congruence_OK (ppl_const_Congruence_t c)

  Returns a positive integer if `c` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `c` *is broken. Useful for debugging purposes.*

10.17.1 Detailed Description

Types and functions for congruences. The types and functions for congruences provide an interface towards *Congruence*.

10.17.2 Friends And Related Function Documentation

10.17.2.1 int ppl_assign_Congruence_from_Congruence (ppl_Congruence_t *dst*, ppl_const_Congruence_t *src*) `[related]`

Assigns a copy of the congruence `src` to `dst`.

Definition at line 1311 of file ppl_c_implementation_common.cc.

10.17.2.2 int ppl_Congruence_coefficient (ppl_const_Congruence_t *c*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Copies into `n` the coefficient of variable `var` in congruence `c`.

Definition at line 1329 of file ppl_c_implementation_common.cc.

10.17.2.3 int ppl_Congruence_inhomogeneous_term (ppl_const_Congruence_t *c*, ppl_Coefficient_t *n*) [related]

Copies into n the inhomogeneous term of congruence c.

Definition at line 1340 of file ppl_c_implementation_common.cc.

10.17.2.4 int ppl_Congruence_modulus (ppl_const_Congruence_t *c*, ppl_Coefficient_t *m*) [related]

Copies into m the modulus of congruence c.

Definition at line 1350 of file ppl_c_implementation_common.cc.

10.17.2.5 int ppl_Congruence_OK (ppl_const_Congruence_t *c*) [related]

Returns a positive integer if c is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if c is broken. Useful for debugging purposes.

Definition at line 1360 of file ppl_c_implementation_common.cc.

10.17.2.6 int ppl_Congruence_space_dimension (ppl_const_Congruence_t *c*, ppl_dimension_type * *m*) [related]

Writes to m the space dimension of c.

Definition at line 1321 of file ppl_c_implementation_common.cc.

10.17.2.7 int ppl_delete_Congruence (ppl_const_Congruence_t *c*) [related]

Invalidates the handle c: this makes sure the corresponding resources will eventually be released.

Definition at line 1304 of file ppl_c_implementation_common.cc.

10.17.2.8 int ppl_new_Congruence (ppl_Congruence_t * *pc*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *m*) [related]

Creates the new congruence $le = 0 \pmod{m}$ and writes a handle for it at address pc. The space dimension of the new congruence is equal to the space dimension of le.

Definition at line 1268 of file ppl_c_implementation_common.cc.

10.17.2.9 int ppl_new_Congruence_from_Congruence (ppl_Congruence_t * *pc*, ppl_const_Congruence_t *c*) [related]

Builds a congruence that is a copy of c; writes a handle for the newly created congruence at address pc.

Definition at line 1295 of file ppl_c_implementation_common.cc.

10.17.2.10 int ppl_new_Congruence_zero_dim_false (ppl_Congruence_t * *pc*) [related]

Creates the unsatisfiable (zero-dimension space) congruence $0 = 1 \pmod 0$ and writes a handle for it at address pc.

Definition at line 1281 of file ppl_c_implementation_common.cc.

10.17.2.11 int ppl_new_Congruence_zero_dim_integrality (ppl_Congruence_t * *pc*) [related]

Creates the true (zero-dimension space) congruence $0 = 1 \pmod 1$, also known as *integrality congruence*. A handle for the newly created congruence is written at address pc.

Definition at line 1288 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.18 ppl_Constraint_System_const_iterator_tag Interface Reference

Types and functions for iterating on constraint systems.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t *pcit)
  Builds a new 'const iterator' and writes a handle to it at address pcit*.*
- int ppl_new_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t *pcit, ppl_const_Constraint_System_const_iterator_t cit)
  Builds a const iterator that is a copy of cit*; writes a handle for the newly created const iterator at address* pcit*.*
- int ppl_assign_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t dst, ppl_const_Constraint_System_const_iterator_t src)
  Assigns a copy of the const iterator src *to* dst*.*

- int ppl_delete_Constraint_System_const_iterator (ppl_const_Constraint_System_const_iterator_t cit)
  Invalidates the handle `cit` *: this makes sure the corresponding resources will eventually be released.*

Dereferencing, Incrementing and Equality Testing

- int ppl_Constraint_System_const_iterator_dereference (ppl_const_Constraint_System_const_iterator_t cit, ppl_const_Constraint_t *pc)
  Dereference `cit` *writing a const handle to the resulting constraint at address* `pc`*.*
- int ppl_Constraint_System_const_iterator_increment (ppl_Constraint_System_const_iterator_t cit)
  Increment `cit` *so that it "points" to the next constraint.*
- int ppl_Constraint_System_const_iterator_equal_test (ppl_const_Constraint_System_const_iterator_t x, ppl_const_Constraint_System_const_iterator_t y)
  Returns a positive integer if the iterators corresponding to `x` *and* `y` *are equal; returns 0 if they are different.*

10.18.1 Detailed Description

Types and functions for iterating on constraint systems. The types and functions for constraint systems iterators provide read-only access to the elements of a constraint system by interfacing *Constraint_System::const_iterator*.

10.18.2 Friends And Related Function Documentation

10.18.2.1 int ppl_assign_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t *dst*, ppl_const_Constraint_System_const_iterator_t *src*) [related]

Assigns a copy of the const iterator `src` to `dst`.

Definition at line 895 of file ppl_c_implementation_common.cc.

10.18.2.2 int ppl_Constraint_System_const_iterator_dereference (ppl_const_Constraint_System_const_iterator_t *cit*, ppl_const_Constraint_t * *pc*) [related]

Dereference `cit` writing a const handle to the resulting constraint at address `pc`.

Definition at line 926 of file ppl_c_implementation_common.cc.

10.18.2.3 int ppl_Constraint_System_const_iterator_equal_test (ppl_const_Constraint_System_const_iterator_t *x*, ppl_const_Constraint_System_const_iterator_t *y*) [related]

Returns a positive integer if the iterators corresponding to x and y are equal; returns 0 if they are different.

Definition at line 946 of file ppl_c_implementation_common.cc.

10.18.2.4 int ppl_Constraint_System_const_iterator_increment (ppl_Constraint_System_const_iterator_t *cit*) [related]

Increment cit so that it "points" to the next constraint.

Definition at line 937 of file ppl_c_implementation_common.cc.

10.18.2.5 int ppl_delete_Constraint_System_const_iterator (ppl_const_Constraint_System_const_iterator_t *cit*) [related]

Invalidates the handle cit: this makes sure the corresponding resources will eventually be released.

Definition at line 886 of file ppl_c_implementation_common.cc.

10.18.2.6 int ppl_new_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t * *pcit*) [related]

Builds a new 'const iterator' and writes a handle to it at address pcit.

Definition at line 869 of file ppl_c_implementation_common.cc.

10.18.2.7 int ppl_new_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t * *pcit*, ppl_const_Constraint_System_const_iterator_t *cit*) [related]

Builds a const iterator that is a copy of cit; writes a handle for the newly created const iterator at address pcit.

Definition at line 877 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.19 ppl_Constraint_System_tag Interface Reference

Types and functions for constraint systems.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Constraint_System (ppl_Constraint_System_t ∗pcs)
  Builds an empty system of constraints and writes a handle to it at address `pcs`*.*
- int ppl_new_Constraint_System_zero_dim_empty (ppl_Constraint_System_t ∗pcs)
  Builds a zero-dimensional, unsatisfiable constraint system and writes a handle to it at address `pcs`*.*
- int ppl_new_Constraint_System_from_Constraint (ppl_Constraint_System_t ∗pcs, ppl_const_-Constraint_t c)
  Builds the singleton constraint system containing only a copy of constraint `c`*; writes a handle for the newly created system at address* `pcs`*.*
- int ppl_new_Constraint_System_from_Constraint_System (ppl_Constraint_System_t ∗pcs, ppl_-const_Constraint_System_t cs)
  Builds a constraint system that is a copy of `cs`*; writes a handle for the newly created system at address* `pcs`*.*
- int ppl_assign_Constraint_System_from_Constraint_System (ppl_Constraint_System_t dst, ppl_-const_Constraint_System_t src)
  Assigns a copy of the constraint system `src` *to* `dst`*.*
- int ppl_delete_Constraint_System (ppl_const_Constraint_System_t cs)
  Invalidates the handle `cs`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Constraint System

- int ppl_Constraint_System_space_dimension (ppl_const_Constraint_System_t cs, ppl_-dimension_type ∗m)
  Writes to `m` *the dimension of the vector space enclosing* `cs`*.*
- int ppl_Constraint_System_empty (ppl_const_Constraint_System_t cs)
  Returns a positive integer if `cs` *contains no (non-trivial) constraint; returns 0 otherwise.*
- int ppl_Constraint_System_has_strict_inequalities (ppl_const_Constraint_System_t cs)
  Returns a positive integer if `cs` *contains any (non-trivial) strict inequality; returns 0 otherwise.*
- int ppl_Constraint_System_begin (ppl_const_Constraint_System_t cs, ppl_Constraint_System_-const_iterator_t cit)
  Assigns to `cit` *a const iterator "pointing" to the beginning of the constraint system* `cs`*.*
- int ppl_Constraint_System_end (ppl_const_Constraint_System_t cs, ppl_Constraint_System_-const_iterator_t cit)
  Assigns to `cit` *a const iterator "pointing" past the end of the constraint system* `cs`*.*
- int ppl_Constraint_System_OK (ppl_const_Constraint_System_t cs)
  Returns a positive integer if `cs` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `cs` *is broken. Useful for debugging purposes.*

Functions that May Modify the Constraint System

- int ppl_Constraint_System_clear (ppl_Constraint_System_t cs)
  Removes all the constraints from the constraint system `cs` *and sets its space dimension to 0.*

- int ppl_Constraint_System_insert_Constraint (ppl_Constraint_System_t cs, ppl_const_-Constraint_t c)

  Inserts a copy of the constraint c *into* cs*; the space dimension is increased, if necessary.*

10.19.1 Detailed Description

Types and functions for constraint systems. The types and functions for constraint systems provide an interface towards *Constraint_System*.

10.19.2 Friends And Related Function Documentation

10.19.2.1 int ppl_assign_Constraint_System_from_Constraint_System (ppl_Constraint_System_t *dst*, ppl_const_Constraint_System_t *src*) [related]

Assigns a copy of the constraint system src to dst.

Definition at line 810 of file ppl_c_implementation_common.cc.

10.19.2.2 int ppl_Constraint_System_begin (ppl_const_Constraint_System_t *cs*, ppl_Constraint_System_const_iterator_t *cit*) [related]

Assigns to cit a const iterator "pointing" to the beginning of the constraint system cs.

Definition at line 905 of file ppl_c_implementation_common.cc.

10.19.2.3 int ppl_Constraint_System_clear (ppl_Constraint_System_t *cs*) [related]

Removes all the constraints from the constraint system cs and sets its space dimension to 0.

Definition at line 843 of file ppl_c_implementation_common.cc.

10.19.2.4 int ppl_Constraint_System_empty (ppl_const_Constraint_System_t *cs*) [related]

Returns a positive integer if cs contains no (non-trivial) constraint; returns 0 otherwise.

Definition at line 828 of file ppl_c_implementation_common.cc.

10.19.2.5 int ppl_Constraint_System_end (ppl_const_Constraint_System_t *cs*, ppl_Constraint_System_const_iterator_t *cit*) [related]

Assigns to cit a const iterator "pointing" past the end of the constraint system cs.

Definition at line 915 of file ppl_c_implementation_common.cc.

10.19.2.6 int ppl_Constraint_System_has_strict_inequalities (ppl_const_Constraint_System_t *cs*) [related]

Returns a positive integer if `cs` contains any (non-trivial) strict inequality; returns 0 otherwise.

Definition at line 836 of file ppl_c_implementation_common.cc.

10.19.2.7 int ppl_Constraint_System_insert_Constraint (ppl_Constraint_System_t *cs*, ppl_const_Constraint_t *c*) [related]

Inserts a copy of the constraint `c` into `cs`; the space dimension is increased, if necessary.

Definition at line 850 of file ppl_c_implementation_common.cc.

10.19.2.8 int ppl_Constraint_System_OK (ppl_const_Constraint_System_t *cs*) [related]

Returns a positive integer if `cs` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `cs` is broken. Useful for debugging purposes.

Definition at line 860 of file ppl_c_implementation_common.cc.

10.19.2.9 int ppl_Constraint_System_space_dimension (ppl_const_Constraint_System_t *cs*, ppl_dimension_type ∗ *m*) [related]

Writes to `m` the dimension of the vector space enclosing `cs`.

Definition at line 819 of file ppl_c_implementation_common.cc.

10.19.2.10 int ppl_delete_Constraint_System (ppl_const_Constraint_System_t *cs*) [related]

Invalidates the handle `cs:` this makes sure the corresponding resources will eventually be released.

Definition at line 802 of file ppl_c_implementation_common.cc.

10.19.2.11 int ppl_new_Constraint_System (ppl_Constraint_System_t ∗ *pcs*) [related]

Builds an empty system of constraints and writes a handle to it at address `pcs`.

Definition at line 768 of file ppl_c_implementation_common.cc.

10.19.2.12 int ppl_new_Constraint_System_from_Constraint (ppl_Constraint_System_t ∗ *pcs*, ppl_const_Constraint_t *c*) [related]

Builds the singleton constraint system containing only a copy of constraint `c`; writes a handle for the newly created system at address `pcs`.

Definition at line 784 of file ppl_c_implementation_common.cc.

10.19.2.13 int ppl_new_Constraint_System_from_Constraint_System (ppl_Constraint_System_t * *pcs*, ppl_const_Constraint_System_t *cs*) [related]

Builds a constraint system that is a copy of `cs`; writes a handle for the newly created system at address `pcs`.

Definition at line 794 of file ppl_c_implementation_common.cc.

10.19.2.14 int ppl_new_Constraint_System_zero_dim_empty (ppl_Constraint_System_t * *pcs*) [related]

Builds a zero-dimensional, unsatisfiable constraint system and writes a handle to it at address `pcs`.

Definition at line 775 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.20 ppl_Constraint_tag Interface Reference

Types and functions for constraints.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Constraint (ppl_Constraint_t *pc, ppl_const_Linear_Expression_t le, enum ppl_enum_Constraint_Type rel)
  Creates the new constraint '`le rel` 0' and writes a handle for it at address `pc`. The space dimension of the new constraint is equal to the space dimension of `le`.
- int ppl_new_Constraint_zero_dim_false (ppl_Constraint_t *pc)
  Creates the unsatisfiable (zero-dimension space) constraint $0 = 1$ and writes a handle for it at address `pc`.
- int ppl_new_Constraint_zero_dim_positivity (ppl_Constraint_t *pc)
  Creates the true (zero-dimension space) constraint $0 \leq 1$, also known as positivity constraint. A handle for the newly created constraint is written at address `pc`.
- int ppl_new_Constraint_from_Constraint (ppl_Constraint_t *pc, ppl_const_Constraint_t c)
  Builds a constraint that is a copy of `c`; writes a handle for the newly created constraint at address `pc`.

- int ppl_assign_Constraint_from_Constraint (ppl_Constraint_t dst, ppl_const_Constraint_t src)
  Assigns a copy of the constraint `src` *to* `dst`*.*
- int ppl_delete_Constraint (ppl_const_Constraint_t c)
  Invalidates the handle `c`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Constraint

- int ppl_Constraint_space_dimension (ppl_const_Constraint_t c, ppl_dimension_type *m)
  Writes to `m` *the space dimension of* `c`*.*
- int ppl_Constraint_type (ppl_const_Constraint_t c)
  Returns the type of constraint `c`*.*
- int ppl_Constraint_coefficient (ppl_const_Constraint_t c, ppl_dimension_type var, ppl_Coefficient_t n)
  Copies into `n` *the coefficient of variable* `var` *in constraint* `c`*.*
- int ppl_Constraint_inhomogeneous_term (ppl_const_Constraint_t c, ppl_Coefficient_t n)
  Copies into `n` *the inhomogeneous term of constraint* `c`*.*
- int ppl_Constraint_OK (ppl_const_Constraint_t c)
  Returns a positive integer if `c` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `c` *is broken. Useful for debugging purposes.*

10.20.1 Detailed Description

Types and functions for constraints. The types and functions for constraints provide an interface towards *Constraint*.

10.20.2 Friends And Related Function Documentation

10.20.2.1 int ppl_assign_Constraint_from_Constraint (ppl_Constraint_t *dst*, ppl_const_Constraint_t *src*) `[related]`

Assigns a copy of the constraint `src` to `dst`.

Definition at line 697 of file ppl_c_implementation_common.cc.

10.20.2.2 int ppl_Constraint_coefficient (ppl_const_Constraint_t *c*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Copies into `n` the coefficient of variable `var` in constraint `c`.

Definition at line 730 of file ppl_c_implementation_common.cc.

10.20.2.3 int ppl_Constraint_inhomogeneous_term (ppl_const_Constraint_t *c*, ppl_Coefficient_t *n*) [related]

Copies into n the inhomogeneous term of constraint c.

Definition at line 741 of file ppl_c_implementation_common.cc.

10.20.2.4 int ppl_Constraint_OK (ppl_const_Constraint_t *c*) [related]

Returns a positive integer if c is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if c is broken. Useful for debugging purposes.

Definition at line 751 of file ppl_c_implementation_common.cc.

10.20.2.5 int ppl_Constraint_space_dimension (ppl_const_Constraint_t *c*, ppl_dimension_type * *m*) [related]

Writes to m the space dimension of c.

Definition at line 707 of file ppl_c_implementation_common.cc.

10.20.2.6 int ppl_Constraint_type (ppl_const_Constraint_t *c*) [related]

Returns the type of constraint c.

Definition at line 715 of file ppl_c_implementation_common.cc.

10.20.2.7 int ppl_delete_Constraint (ppl_const_Constraint_t *c*) [related]

Invalidates the handle c: this makes sure the corresponding resources will eventually be released.

Definition at line 690 of file ppl_c_implementation_common.cc.

10.20.2.8 int ppl_new_Constraint (ppl_Constraint_t * *pc*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Constraint_Type *rel*) [related]

Creates the new constraint 'le rel 0' and writes a handle for it at address pc. The space dimension of the new constraint is equal to the space dimension of le.

Definition at line 636 of file ppl_c_implementation_common.cc.

10.20.2.9 int ppl_new_Constraint_from_Constraint (ppl_Constraint_t * *pc*, ppl_const_Constraint_t *c*) [related]

Builds a constraint that is a copy of `c`; writes a handle for the newly created constraint at address `pc`.

Definition at line 681 of file ppl_c_implementation_common.cc.

10.20.2.10 int ppl_new_Constraint_zero_dim_false (ppl_Constraint_t * *pc*) [related]

Creates the unsatisfiable (zero-dimension space) constraint $0 = 1$ and writes a handle for it at address `pc`.

Definition at line 667 of file ppl_c_implementation_common.cc.

10.20.2.11 int ppl_new_Constraint_zero_dim_positivity (ppl_Constraint_t * *pc*) [related]

Creates the true (zero-dimension space) constraint $0 \leq 1$, also known as *positivity constraint*. A handle for the newly created constraint is written at address `pc`.

Definition at line 674 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.21 ppl_Constraints_Product_C_Polyhedron_Grid_tag Interface Reference

Types and functions for ppl_Constraints_Product_C_Polyhedron_Grid_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Constraints_Product_C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_space_dimension (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int8_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int16_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int32_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int64_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint8_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint8_Box_t ph)

- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint16_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint32_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint64_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Z_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Rational_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int8_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int16_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int32_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int64_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpz_class (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpq_class (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int8_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int32_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int64_t (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpz_class (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpq_class (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_C_Polyhedron (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_NNC_Polyhedron (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Grid (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Float_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_float (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_float (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Double_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_double (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_double (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph)

- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Long_Double_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_long_double (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_long_double (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraints_Product_C_Polyhedron_Grid (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Constraints_Product_C_Polyhedron_Grid_t ph)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int8_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int16_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int32_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int64_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint8_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint16_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint32_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint64_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Z_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Rational_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int16_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int8_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)

- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int16_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int32_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int64_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_C_Polyhedron_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Grid_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Float_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_float_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_float_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Double_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_long_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraints_Product_C_Polyhedron_Grid_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Constraints_Product_C_Polyhedron_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraint_System (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Congruence_System (ppl_Constraints_Product_C_Polyhedron_Grid_t *pph, ppl_const_Congruence_System_t cs)

- int ppl_Constraints_Product_C_Polyhedron_Grid_space_dimension (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ∗m)
- int ppl_Constraints_Product_C_Polyhedron_Grid_affine_dimension (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ∗m)
- int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Constraint (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Generator (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t ph, ppl_const_Generator_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Congruence (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_empty (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_universe (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_bounded (ppl_const_Constraints_Product_-C_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_topologically_closed (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_discrete (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_topological_closure_assign (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_C_Polyhedron_Grid_bounds_from_above (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_C_Polyhedron_Grid_bounds_from_below (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_C_Polyhedron_Grid_maximize (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int ∗poptimum)
- int ppl_Constraints_Product_C_Polyhedron_Grid_minimize (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int ∗poptimum)
- int ppl_Constraints_Product_C_Polyhedron_Grid_maximize_with_point (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_C_Polyhedron_Grid_minimize_with_point (ppl_const_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_C_Polyhedron_Grid_contains_Constraints_Product_C_Polyhedron_-Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_-C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_strictly_contains_Constraints_Product_-C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_-Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_is_disjoint_from_Constraints_Product_-C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_-Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_equals_Constraints_Product_C_Polyhedron_-Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_-C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_OK (ppl_const_Constraints_Product_C_-Polyhedron_Grid_t ph)

- int ppl_Constraints_Product_C_Polyhedron_Grid_add_constraint (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_add_congruence (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_add_constraints (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_add_congruences (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_constraint (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_congruence (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_constraints (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_congruences (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_intersection_assign (ppl_Constraints_Product_-C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_upper_bound_assign (ppl_Constraints_Product_-C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_difference_assign (ppl_Constraints_Product_C_-Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_concatenate_assign (ppl_Constraints_Product_-C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_time_elapse_assign (ppl_Constraints_Product_-C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_upper_bound_assign_if_exact (ppl_-Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_-Grid_t y)
- int ppl_Constraints_Product_C_Polyhedron_Grid_constrains (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_C_Polyhedron_Grid_unconstrain_space_dimension (ppl_-Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_C_Polyhedron_Grid_unconstrain_space_dimensions (ppl_-Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_C_Polyhedron_Grid_affine_image (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_affine_preimage (ppl_Constraints_Product_C_-Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_bounded_affine_image (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_bounded_affine_preimage (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_image (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_preimage (ppl_Constraints_-Product_C_Polyhedron_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type rel-sym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_C_Polyhedron_Grid_add_space_dimensions_and_embed (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_add_space_dimensions_and_project (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_remove_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_C_Polyhedron_Grid_remove_higher_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_expand_space_dimension (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Constraints_Product_C_Polyhedron_Grid_fold_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Constraints_Product_C_Polyhedron_Grid_map_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Constraints_Product_C_Polyhedron_Grid_drop_some_non_integer_points (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, int complexity)
- int ppl_Constraints_Product_C_Polyhedron_Grid_drop_some_non_integer_points_2 (ppl_Constraints_Product_C_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Constraints_Product_C_Polyhedron_Grid_external_memory_in_bytes (ppl_const_Constraints_Product_C_Polyhedron_Grid_t ps, size_t ∗sz)
- int ppl_Constraints_Product_C_Polyhedron_Grid_total_memory_in_bytes (ppl_const_Constraints_Product_C_Polyhedron_Grid_t ps, size_t ∗sz)
- int ppl_Constraints_Product_C_Polyhedron_Grid_widening_assign_with_tokens (ppl_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y, unsigned ∗tp)
- int ppl_Constraints_Product_C_Polyhedron_Grid_widening_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t x, ppl_const_Constraints_Product_C_Polyhedron_Grid_t y)

10.21.1 Detailed Description

Types and functions for ppl_Constraints_Product_C_Polyhedron_Grid_tag.

10.21.2 Friends And Related Function Documentation

10.21.2.1 int ppl_Constraints_Product_C_Polyhedron_Grid_add_congruence (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.21.2.2 int ppl_Constraints_Product_C_Polyhedron_Grid_add_congruences (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.21.2.3 int ppl_Constraints_Product_C_Polyhedron_Grid_add_constraint (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.21.2.4 int ppl_Constraints_Product_C_Polyhedron_Grid_add_constraints (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.21.2.5 int ppl_Constraints_Product_C_Polyhedron_Grid_add_space_dimensions_and_embed (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) `[related]`

10.21.2.6 int ppl_Constraints_Product_C_Polyhedron_Grid_add_space_dimensions_and_project (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) `[related]`

10.21.2.7 int ppl_Constraints_Product_C_Polyhedron_Grid_affine_dimension (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type * *m*) `[related]`

10.21.2.8 int ppl_Constraints_Product_C_Polyhedron_Grid_affine_image (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.21.2.9 int ppl_Constraints_Product_C_Polyhedron_Grid_affine_preimage (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.21.2.10 int ppl_Constraints_Product_C_Polyhedron_Grid_bounded_affine_image (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.21.2.11 int ppl_Constraints_Product_C_Polyhedron_Grid_bounded_affine_preimage (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.21.2.12 int ppl_Constraints_Product_C_Polyhedron_Grid_bounds_from_above (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.21.2.13 int ppl_Constraints_Product_C_Polyhedron_Grid_bounds_from_below (ppl_const_-Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.21.2.14 int ppl_Constraints_Product_C_Polyhedron_Grid_concatenate_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_-C_Polyhedron_Grid_t *y*) [related]

10.21.2.15 int ppl_Constraints_Product_C_Polyhedron_Grid_constrains (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.21.2.16 int ppl_Constraints_Product_C_Polyhedron_Grid_contains_Constraints_Product_-C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.17 int ppl_Constraints_Product_C_Polyhedron_Grid_difference_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_-C_Polyhedron_Grid_t *y*) [related]

10.21.2.18 int ppl_Constraints_Product_C_Polyhedron_Grid_drop_some_non_integer_points (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, int *complexity*) [related]

10.21.2.19 int ppl_Constraints_Product_C_Polyhedron_Grid_drop_some_non_integer_points_2 (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.21.2.20 int ppl_Constraints_Product_C_Polyhedron_Grid_equals_Constraints_Product_-C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.21 int ppl_Constraints_Product_C_Polyhedron_Grid_expand_space_dimension (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.21.2.22 int ppl_Constraints_Product_C_Polyhedron_Grid_external_memory_in_bytes (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ps*, size_t ∗ *sz*) [related]

10.21.2.23 int ppl_Constraints_Product_C_Polyhedron_Grid_fold_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.21.2.24 int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_image (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.21.2.25 int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.21.2.26 int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_preimage (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.21.2.27 int ppl_Constraints_Product_C_Polyhedron_Grid_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.21.2.28 int ppl_Constraints_Product_C_Polyhedron_Grid_intersection_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) `[related]`

10.21.2.29 int ppl_Constraints_Product_C_Polyhedron_Grid_is_bounded (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) `[related]`

10.21.2.30 int ppl_Constraints_Product_C_Polyhedron_Grid_is_discrete (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) `[related]`

10.21.2.31 int ppl_Constraints_Product_C_Polyhedron_Grid_is_disjoint_from_Constraints_Product_C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) `[related]`

10.21.2.32 int ppl_Constraints_Product_C_Polyhedron_Grid_is_empty (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) `[related]`

10.21.2.33 int ppl_Constraints_Product_C_Polyhedron_Grid_is_topologically_closed (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) `[related]`

10.21.2.34 int ppl_Constraints_Product_C_Polyhedron_Grid_is_universe (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) [related]

10.21.2.35 int ppl_Constraints_Product_C_Polyhedron_Grid_map_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.21.2.36 int ppl_Constraints_Product_C_Polyhedron_Grid_maximize (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.21.2.37 int ppl_Constraints_Product_C_Polyhedron_Grid_maximize_with_point (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.21.2.38 int ppl_Constraints_Product_C_Polyhedron_Grid_minimize (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.21.2.39 int ppl_Constraints_Product_C_Polyhedron_Grid_minimize_with_point (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.21.2.40 int ppl_Constraints_Product_C_Polyhedron_Grid_OK (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) [related]

10.21.2.41 int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_congruence (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.21.2.42 int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_congruences (ppl_-Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.21.2.43 int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_constraint (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.21.2.44 int ppl_Constraints_Product_C_Polyhedron_Grid_refine_with_constraints (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.21.2.45 int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Congruence (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.21.2.46 int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Constraint (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.21.2.47 int ppl_Constraints_Product_C_Polyhedron_Grid_relation_with_Generator (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_const_Generator_t *c*) [related]

10.21.2.48 int ppl_Constraints_Product_C_Polyhedron_Grid_remove_higher_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.21.2.49 int ppl_Constraints_Product_C_Polyhedron_Grid_remove_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.21.2.50 int ppl_Constraints_Product_C_Polyhedron_Grid_space_dimension (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type * *m*) [related]

10.21.2.51 int ppl_Constraints_Product_C_Polyhedron_Grid_strictly_contains_Constraints_-Product_C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.52 int ppl_Constraints_Product_C_Polyhedron_Grid_time_elapse_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_-C_Polyhedron_Grid_t *y*) [related]

10.21.2.53 int ppl_Constraints_Product_C_Polyhedron_Grid_topological_closure_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*) [related]

10.21.2.54 int ppl_Constraints_Product_C_Polyhedron_Grid_total_memory_in_bytes (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ps*, size_t * *sz*) [related]

10.21.2.55 int ppl_Constraints_Product_C_Polyhedron_Grid_unconstrain_space_dimension (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.21.2.56 int ppl_Constraints_Product_C_Polyhedron_Grid_unconstrain_space_dimensions (ppl_Constraints_Product_C_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.21.2.57 int ppl_Constraints_Product_C_Polyhedron_Grid_upper_-bound_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.58 int ppl_Constraints_Product_C_Polyhedron_Grid_upper_bound_assign_if_exact (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.59 int ppl_Constraints_Product_C_Polyhedron_Grid_widening_assign (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*) [related]

10.21.2.60 int ppl_Constraints_Product_C_Polyhedron_Grid_widening_assign_with_tokens (ppl_Constraints_Product_C_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *y*, unsigned ∗ *tp*) [related]

10.21.2.61 int ppl_delete_Constraints_Product_C_Polyhedron_Grid (ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) [related]

10.21.2.62 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_double (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.21.2.63 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.21.2.64 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_float (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.21.2.65 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_float_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.21.2.66 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int16_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.21.2.67 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int16_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.21.2.68 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int32_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.21.2.69 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.21.2.70 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int64_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.21.2.71 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.21.2.72 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int8_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.21.2.73 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.21.2.74 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_-long_double (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.21.2.75 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_long_-double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.21.2.76 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_-Shape_mpq_class (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.21.2.77 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpq_-class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.21.2.78 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_-Shape_mpz_class (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.21.2.79 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_BD_Shape_mpz_-class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.21.2.80 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_C_Polyhedron (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.21.2.81 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_C_Polyhedron_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.21.2.82 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Congruence_System (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.21.2.83 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraint_System (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.21.2.84 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraints_Product_C_Polyhedron_Grid (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*) [related]

10.21.2.85 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Constraints_Product_C_Polyhedron_Grid_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Constraints_Product_C_Polyhedron_Grid_t *ph*, int *complexity*) [related]

10.21.2.86 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Double_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.21.2.87 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Double_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.21.2.88 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Float_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.21.2.89 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Float_Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.21.2.90 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Grid (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.21.2.91 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Grid_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.21.2.92 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int16_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.21.2.93 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int16_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.21.2.94 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int32_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.21.2.95 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int32_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.21.2.96 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int64_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.21.2.97 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int64_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.21.2.98 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int8_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.21.2.99 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Int8_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.21.2.100 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Long_-Double_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.21.2.101 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Long_Double_-Box_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.21.2.102 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_NNC_Polyhedron (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.21.2.103 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_NNC_Polyhedron_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.21.2.104 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_-Shape_double (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.21.2.105 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_-double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.21.2.106 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_-Shape_float (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.21.2.107 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_-float_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.21.2.108 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_-Shape_int16_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.21.2.109 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.21.2.110 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_-Shape_int32_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.21.2.111 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.21.2.112 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_-Shape_int64_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.21.2.113 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.21.2.114 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int8_t (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.21.2.115 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_int8_t_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.21.2.116 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_long_double (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.21.2.117 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_long_double_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.21.2.118 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpq_class (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.21.2.119 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.21.2.120 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpz_class (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.21.2.121 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.21.2.122 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Rational_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.21.2.123 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Rational_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.21.2.124 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_space_dimension (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.21.2.125 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint16_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.21.2.126 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint16_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.21.2.127 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint32_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.21.2.128 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint32_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.21.2.129 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint64_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.21.2.130 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint64_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.21.2.131 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint8_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.21.2.132 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Uint8_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.21.2.133 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Z_Box (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.21.2.134 int ppl_new_Constraints_Product_C_Polyhedron_Grid_from_Z_Box_-with_complexity (ppl_Constraints_Product_C_Polyhedron_Grid_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.22 ppl_Constraints_Product_Grid_C_Polyhedron_tag Interface Reference

Types and functions for ppl_Constraints_Product_Grid_C_Polyhedron_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Constraints_Product_Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_-C_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_space_dimension (ppl_Constraints_-Product_Grid_C_Polyhedron_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int8_Box (ppl_Constraints_-Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Int8_Box_t ph)

- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int16_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int32_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int64_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint8_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint16_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint32_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint64_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Z_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Rational_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int8_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int16_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int32_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int64_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpz_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpq_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_C_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_NNC_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Grid (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Grid_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Float_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Float_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_float (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_float_t ph)

- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_float (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Double_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_double (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_double (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Long_Double_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_long_double (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_long_double (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Constraints_Product_Grid_C_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Constraints_Product_Grid_C_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int8_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int16_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int32_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int64_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint8_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint16_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint32_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint64_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Z_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Rational_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)

- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpz_class_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpz_-class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpq_class_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpq_-class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int8_t_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int16_t_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int32_t_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_int64_t_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_mpz_class_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_mpq_class_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Grid_with_complexity (ppl_-Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Float_Box_with_complexity (ppl_-Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_float_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-float_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Double_Box_with_complexity (ppl_-Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_double_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_-double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_long_double_with_-complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗pph, ppl_const_BD_Shape_long_-double_t ph, int complexity)

- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_long_double_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Octagonal_-Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Constraints_Product_Grid_C_-Polyhedron_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_-Constraints_Product_Grid_C_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Constraint_System (ppl_-Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Congruence_System (ppl_-Constraints_Product_Grid_C_Polyhedron_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_space_dimension (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Constraints_Product_Grid_C_Polyhedron_affine_dimension (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Constraint (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Generator (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t ph, ppl_const_Generator_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Congruence (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_empty (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_universe (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_bounded (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_topologically_closed (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_discrete (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_topological_closure_assign (ppl_Constraints_-Product_Grid_C_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_bounds_from_above (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_Grid_C_Polyhedron_bounds_from_below (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_Grid_C_Polyhedron_maximize (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_Grid_C_Polyhedron_minimize (ppl_const_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_Grid_C_Polyhedron_maximize_with_point (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_Grid_C_Polyhedron_minimize_with_point (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_Grid_C_Polyhedron_contains_Constraints_Product_Grid_C_-Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_-Product_Grid_C_Polyhedron_t y)

- int ppl_Constraints_Product_Grid_C_Polyhedron_strictly_contains_Constraints_Product_Grid_C_-Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_-Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_is_disjoint_from_Constraints_Product_Grid_C_-Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_-Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_equals_Constraints_Product_Grid_C_-Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_-Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_OK (ppl_const_Constraints_Product_Grid_C_-Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_constraint (ppl_Constraints_Product_Grid_-C_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_congruence (ppl_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_constraints (ppl_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_congruences (ppl_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_constraint (ppl_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_congruence (ppl_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_constraints (ppl_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_congruences (ppl_Constraints_-Product_Grid_C_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_intersection_assign (ppl_Constraints_Product_-Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_upper_bound_assign (ppl_Constraints_Product_-Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_difference_assign (ppl_Constraints_Product_-Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_concatenate_assign (ppl_Constraints_Product_-Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_time_elapse_assign (ppl_Constraints_Product_-Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_upper_bound_assign_if_exact (ppl_-Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_-Polyhedron_t y)
- int ppl_Constraints_Product_Grid_C_Polyhedron_constrains (ppl_Constraints_Product_Grid_C_-Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_Grid_C_Polyhedron_unconstrain_space_dimension (ppl_-Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_Grid_C_Polyhedron_unconstrain_space_dimensions (ppl_-Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_Grid_C_Polyhedron_affine_image (ppl_Constraints_Product_Grid_-C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_affine_preimage (ppl_Constraints_Product_-Grid_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)

- int ppl_Constraints_Product_Grid_C_Polyhedron_bounded_affine_image (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_bounded_affine_preimage (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_image (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_preimage (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_space_dimensions_and_embed (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_add_space_dimensions_and_project (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_remove_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_Grid_C_Polyhedron_remove_higher_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_expand_space_dimension (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Constraints_Product_Grid_C_Polyhedron_fold_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_C_Polyhedron_map_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Constraints_Product_Grid_C_Polyhedron_drop_some_non_integer_points (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, int complexity)
- int ppl_Constraints_Product_Grid_C_Polyhedron_drop_some_non_integer_points_2 (ppl_Constraints_Product_Grid_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Constraints_Product_Grid_C_Polyhedron_external_memory_in_bytes (ppl_const_Constraints_Product_Grid_C_Polyhedron_t ps, size_t *sz)
- int ppl_Constraints_Product_Grid_C_Polyhedron_total_memory_in_bytes (ppl_const_Constraints_Product_Grid_C_Polyhedron_t ps, size_t *sz)
- int ppl_Constraints_Product_Grid_C_Polyhedron_widening_assign_with_tokens (ppl_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y, unsigned *tp)
- int ppl_Constraints_Product_Grid_C_Polyhedron_widening_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t x, ppl_const_Constraints_Product_Grid_C_Polyhedron_t y)

10.22.1 Detailed Description

Types and functions for ppl_Constraints_Product_Grid_C_Polyhedron_tag.

10.22.2 Friends And Related Function Documentation

10.22.2.1 int ppl_Constraints_Product_Grid_C_Polyhedron_add_congruence (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.22.2.2 int ppl_Constraints_Product_Grid_C_Polyhedron_add_congruences (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.22.2.3 int ppl_Constraints_Product_Grid_C_Polyhedron_add_constraint (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.22.2.4 int ppl_Constraints_Product_Grid_C_Polyhedron_add_constraints (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.22.2.5 int ppl_Constraints_Product_Grid_C_Polyhedron_add_space_dimensions_and_embed (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.22.2.6 int ppl_Constraints_Product_Grid_C_Polyhedron_add_space_dimensions_and_project (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.22.2.7 int ppl_Constraints_Product_Grid_C_Polyhedron_affine_dimension (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.22.2.8 int ppl_Constraints_Product_Grid_C_Polyhedron_affine_image (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.22.2.9 int ppl_Constraints_Product_Grid_C_Polyhedron_affine_preimage (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.22.2.10 int ppl_Constraints_Product_Grid_C_Polyhedron_bounded_affine_image (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.22.2.11 int ppl_Constraints_Product_Grid_C_Polyhedron_bounded_affine_preimage (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.22.2.12 int ppl_Constraints_Product_Grid_C_Polyhedron_bounds_from_above (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.22.2.13 int ppl_Constraints_Product_Grid_C_Polyhedron_bounds_from_below (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.22.2.14 int ppl_Constraints_Product_Grid_C_Polyhedron_concatenate_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_-Grid_C_Polyhedron_t *y*) [related]

10.22.2.15 int ppl_Constraints_Product_Grid_C_Polyhedron_constrains (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.22.2.16 int ppl_Constraints_Product_Grid_C_Polyhedron_contains_Constraints_Product_-Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.17 int ppl_Constraints_Product_Grid_C_Polyhedron_difference_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_-Grid_C_Polyhedron_t *y*) [related]

10.22.2.18 int ppl_Constraints_Product_Grid_C_Polyhedron_drop_some_non_integer_points (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, int *complexity*) [related]

10.22.2.19 int ppl_Constraints_Product_Grid_C_Polyhedron_drop_some_non_integer_points_2 (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.22.2.20 int ppl_Constraints_Product_Grid_C_Polyhedron_equals_Constraints_Product_-Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.21 int ppl_Constraints_Product_Grid_C_Polyhedron_expand_space_dimension (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.22.2.22 int ppl_Constraints_Product_Grid_C_Polyhedron_external_memory_in_bytes (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.22.2.23 int ppl_Constraints_Product_Grid_C_Polyhedron_fold_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.22.2.24 int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_image (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.22.2.25 int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.22.2.26 int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_preimage (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.22.2.27 int ppl_Constraints_Product_Grid_C_Polyhedron_generalized_affine_-preimage_lhs_rhs (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.22.2.28 int ppl_Constraints_Product_Grid_C_Polyhedron_intersection_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_-Grid_C_Polyhedron_t *y*) [related]

10.22.2.29 int ppl_Constraints_Product_Grid_C_Polyhedron_is_bounded (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.30 int ppl_Constraints_Product_Grid_C_Polyhedron_is_discrete (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.31 int ppl_Constraints_Product_Grid_C_Polyhedron_is_disjoint_from_Constraints_-Product_Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.32 int ppl_Constraints_Product_Grid_C_Polyhedron_is_empty (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.33 int ppl_Constraints_Product_Grid_C_Polyhedron_is_topologically_closed (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.34 int ppl_Constraints_Product_Grid_C_Polyhedron_is_universe (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.35 int ppl_Constraints_Product_Grid_C_Polyhedron_map_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.22.2.36 int ppl_Constraints_Product_Grid_C_Polyhedron_maximize (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.22.2.37 int ppl_Constraints_Product_Grid_C_Polyhedron_maximize_with_point (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.22.2.38 int ppl_Constraints_Product_Grid_C_Polyhedron_minimize (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.22.2.39 int ppl_Constraints_Product_Grid_C_Polyhedron_minimize_with_point (ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.22.2.40 int ppl_Constraints_Product_Grid_C_Polyhedron_OK (ppl_const_Constraints_-Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.41 int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_congruence (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.22.2.42 int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_congruences (ppl_-Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.22.2.43 int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_constraint (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.22.2.44 int ppl_Constraints_Product_Grid_C_Polyhedron_refine_with_constraints (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.22.2.45 int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Congruence (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.22.2.46 int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Constraint (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.22.2.47 int ppl_Constraints_Product_Grid_C_Polyhedron_relation_with_Generator (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_const_Generator_t *c*) [related]

10.22.2.48 int ppl_Constraints_Product_Grid_C_Polyhedron_remove_higher_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.22.2.49 int ppl_Constraints_Product_Grid_C_Polyhedron_remove_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.22.2.50 int ppl_Constraints_Product_Grid_C_Polyhedron_space_dimension (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.22.2.51 int ppl_Constraints_Product_Grid_C_Polyhedron_strictly_contains_Constraints_-Product_Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.52 int ppl_Constraints_Product_Grid_C_Polyhedron_time_elapse_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_-Grid_C_Polyhedron_t *y*) [related]

10.22.2.53 int ppl_Constraints_Product_Grid_C_Polyhedron_topological_closure_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.54 int ppl_Constraints_Product_Grid_C_Polyhedron_total_memory_in_bytes (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.22.2.55 int ppl_Constraints_Product_Grid_C_Polyhedron_unconstrain_space_dimension (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.22.2.56 int ppl_Constraints_Product_Grid_C_Polyhedron_unconstrain_space_dimensions (ppl_Constraints_Product_Grid_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.22.2.57 int ppl_Constraints_Product_Grid_C_Polyhedron_upper_bound_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.58 int ppl_Constraints_Product_Grid_C_Polyhedron_upper_bound_assign_if_exact (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.59 int ppl_Constraints_Product_Grid_C_Polyhedron_widening_assign (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*) [related]

10.22.2.60 int ppl_Constraints_Product_Grid_C_Polyhedron_widening_assign_with_tokens (ppl_Constraints_Product_Grid_C_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *y*, unsigned ∗ *tp*) [related]

10.22.2.61 int ppl_delete_Constraints_Product_Grid_C_Polyhedron (ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.62 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_double (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.22.2.63 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.22.2.64 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_float (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.22.2.65 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_-float_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.22.2.66 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_-Shape_int16_t (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.22.2.67 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int16_-t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.22.2.68 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_-Shape_int32_t (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.22.2.69 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int32_-t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.22.2.70 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_-Shape_int64_t (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.22.2.71 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int64_-t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.22.2.72 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int8_t (ppl_-Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.22.2.73 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.22.2.74 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_long_double (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.22.2.75 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.22.2.76 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpq_class (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.22.2.77 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.22.2.78 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpz_class (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.22.2.79 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.22.2.80 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_C_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.22.2.81 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_C_Polyhedron_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.22.2.82 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Congruence_-System (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.22.2.83 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Constraint_-System (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.22.2.84 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Constraints_Product_-Grid_C_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Constraints_Product_Grid_C_Polyhedron_t *ph*) [related]

10.22.2.85 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_-Constraints_Product_Grid_C_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_-Constraints_Product_Grid_C_Polyhedron_t *ph*, int *complexity*) [related]

10.22.2.86 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Double_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.22.2.87 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Double_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.22.2.88 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Float_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.22.2.89 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Float_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.22.2.90 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Grid (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.22.2.91 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Grid_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.22.2.92 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int16_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.22.2.93 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int16_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.22.2.94 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int32_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.22.2.95 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int32_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.22.2.96 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int64_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.22.2.97 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int64_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.22.2.98 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int8_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.22.2.99 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Int8_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.22.2.100 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Long_Double_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.22.2.101 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.22.2.102 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_NNC_Polyhedron (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.22.2.103 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.22.2.104 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_double (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.22.2.105 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-double_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.22.2.106 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_float (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.22.2.107 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-float_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.22.2.108 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_int16_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.22.2.109 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.22.2.110 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_int32_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.22.2.111 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.22.2.112 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_int64_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.22.2.113 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.22.2.114 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_int8_t (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.22.2.115 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.22.2.116 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_long_double (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.22.2.117 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-long_double_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.22.2.118 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_mpq_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.22.2.119 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.22.2.120 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_-Shape_mpz_class (ppl_Constraints_Product_Grid_C_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.22.2.121 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.22.2.122 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Rational_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.22.2.123 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Rational_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.22.2.124 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_space_dimension (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.22.2.125 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint16_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.22.2.126 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint16_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.22.2.127 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint32_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.22.2.128 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint32_Box_with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.22.2.129 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint64_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.22.2.130 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint64_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.22.2.131 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint8_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.22.2.132 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Uint8_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.22.2.133 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Z_Box (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.22.2.134 int ppl_new_Constraints_Product_Grid_C_Polyhedron_from_Z_Box_-with_complexity (ppl_Constraints_Product_Grid_C_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.23 ppl_Constraints_Product_Grid_NNC_Polyhedron_tag Interface Reference

Types and functions for ppl_Constraints_Product_Grid_NNC_Polyhedron_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int8_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int16_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int32_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int64_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint8_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint16_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint32_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint64_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Z_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Rational_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int8_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int16_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int32_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int64_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpz_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpq_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_C_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Polyhedron_t ph)

- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Grid (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Float_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_float (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_float (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Double_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Long_Double_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_long_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_long_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Constraints_Product_Grid_NNC_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int8_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int16_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int32_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int64_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint8_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint16_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint32_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint64_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Z_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *pph, ppl_const_Z_Box_t ph, int complexity)

- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Rational_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int8_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int16_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int32_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int64_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Grid_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Float_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_float_t ph, int complexity)

- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Double_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_long_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Constraints_Product_Grid_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Constraint_System (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Congruence_System (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_space_dimension (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ∗m)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_dimension (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ∗m)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Constraint (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Generator (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Generator_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Congruence (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_empty (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_universe (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_bounded (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_topologically_closed (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_discrete (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_topological_closure_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounds_from_above (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le)

- int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounds_from_below (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_maximize (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_minimize (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_maximize_with_point (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_minimize_with_point (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_contains_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_strictly_contains_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_disjoint_from_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_equals_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_OK (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t ph)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_constraint (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_congruence (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_constraints (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_congruences (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_constraint (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_congruence (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_constraints (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_congruences (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_intersection_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_upper_bound_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_difference_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)

- int ppl_Constraints_Product_Grid_NNC_Polyhedron_concatenate_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_time_elapse_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_upper_bound_assign_if_exact (ppl_Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_constrains (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_unconstrain_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_unconstrain_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounded_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounded_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_space_dimensions_and_embed (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_space_dimensions_and_project (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_remove_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_remove_higher_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_expand_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_fold_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_map_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type maps[ ], size_t n)

- int ppl_Constraints_Product_Grid_NNC_Polyhedron_drop_some_non_integer_points (ppl_-Constraints_Product_Grid_NNC_Polyhedron_t ph, int complexity)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_drop_some_non_integer_points_2 (ppl_-Constraints_Product_Grid_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_external_memory_in_bytes (ppl_const_-Constraints_Product_Grid_NNC_Polyhedron_t ps, size_t ∗sz)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_total_memory_in_bytes (ppl_const_-Constraints_Product_Grid_NNC_Polyhedron_t ps, size_t ∗sz)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_widening_assign_with_tokens (ppl_-Constraints_Product_Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_-Polyhedron_t y, unsigned ∗tp)
- int ppl_Constraints_Product_Grid_NNC_Polyhedron_widening_assign (ppl_Constraints_Product_-Grid_NNC_Polyhedron_t x, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t y)

10.23.1 Detailed Description

Types and functions for ppl_Constraints_Product_Grid_NNC_Polyhedron_tag.

10.23.2 Friends And Related Function Documentation

10.23.2.1 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_congruence (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.23.2.2 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_congruences (ppl_-Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.23.2.3 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_constraint (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.23.2.4 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_constraints (ppl_-Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.23.2.5 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_space_dimensions_and_-embed (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) `[related]`

10.23.2.6 int ppl_Constraints_Product_Grid_NNC_Polyhedron_add_space_dimensions_and_-project (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.23.2.7 int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_dimension (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type * *m*) [related]

10.23.2.8 int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.23.2.9 int ppl_Constraints_Product_Grid_NNC_Polyhedron_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.23.2.10 int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounded_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.23.2.11 int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounded_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.23.2.12 int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounds_from_above (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.23.2.13 int ppl_Constraints_Product_Grid_NNC_Polyhedron_bounds_from_below (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.23.2.14 int ppl_Constraints_Product_Grid_NNC_Polyhedron_concatenate_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.15 int ppl_Constraints_Product_Grid_NNC_Polyhedron_constrains (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.23.2.16 int ppl_Constraints_Product_Grid_NNC_Polyhedron_contains_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.17 int ppl_Constraints_Product_Grid_NNC_Polyhedron_difference_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.18 int ppl_Constraints_Product_Grid_NNC_Polyhedron_drop_some_non_integer_points (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, int *complexity*) [related]

10.23.2.19 int ppl_Constraints_Product_Grid_NNC_Polyhedron_drop_some_non_integer_points_2 (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.23.2.20 int ppl_Constraints_Product_Grid_NNC_Polyhedron_equals_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.21 int ppl_Constraints_Product_Grid_NNC_Polyhedron_expand_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.23.2.22 int ppl_Constraints_Product_Grid_NNC_Polyhedron_external_memory_in_bytes (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.23.2.23 int ppl_Constraints_Product_Grid_NNC_Polyhedron_fold_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.23.2.24 int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_image (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.23.2.25 int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.23.2.26 int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_preimage (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.23.2.27 int ppl_Constraints_Product_Grid_NNC_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.23.2.28 int ppl_Constraints_Product_Grid_NNC_Polyhedron_intersection_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.29 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_bounded (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.30 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_discrete (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.31 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_-disjoint_from_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.32 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_empty (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.33 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_topologically_closed (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.34 int ppl_Constraints_Product_Grid_NNC_Polyhedron_is_universe (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.35 int ppl_Constraints_Product_Grid_NNC_Polyhedron_map_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.23.2.36 int ppl_Constraints_Product_Grid_NNC_Polyhedron_maximize (ppl_const_-Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.23.2.37 int ppl_Constraints_Product_Grid_NNC_Polyhedron_maximize_with_point (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.23.2.38 int ppl_Constraints_Product_Grid_NNC_Polyhedron_minimize (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.23.2.39 int ppl_Constraints_Product_Grid_NNC_Polyhedron_minimize_with_point (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.23.2.40 int ppl_Constraints_Product_Grid_NNC_Polyhedron_OK (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.41 int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_congruence (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.23.2.42 int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_congruences (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.23.2.43 int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_constraint (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.23.2.44 int ppl_Constraints_Product_Grid_NNC_Polyhedron_refine_with_constraints (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.23.2.45 int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Congruence (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.23.2.46 int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Constraint (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.23.2.47 int ppl_Constraints_Product_Grid_NNC_Polyhedron_relation_with_Generator (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.23.2.48 int ppl_Constraints_Product_Grid_NNC_Polyhedron_remove_higher_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) `[related]`

10.23.2.49 int ppl_Constraints_Product_Grid_NNC_Polyhedron_remove_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.23.2.50 int ppl_Constraints_Product_Grid_NNC_Polyhedron_space_dimension (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type * *m*) `[related]`

10.23.2.51 int ppl_Constraints_Product_Grid_NNC_Polyhedron_strictly_contains_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) `[related]`

10.23.2.52 int ppl_Constraints_Product_Grid_NNC_Polyhedron_time_elapse_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) `[related]`

10.23.2.53 int ppl_Constraints_Product_Grid_NNC_Polyhedron_topological_closure_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.54 int ppl_Constraints_Product_Grid_NNC_Polyhedron_total_memory_in_bytes (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.23.2.55 int ppl_Constraints_Product_Grid_NNC_Polyhedron_unconstrain_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.23.2.56 int ppl_Constraints_Product_Grid_NNC_Polyhedron_unconstrain_space_dimensions (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.23.2.57 int ppl_Constraints_Product_Grid_NNC_Polyhedron_upper_bound_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.58 int ppl_Constraints_Product_Grid_NNC_Polyhedron_upper_bound_assign_if_exact (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.59 int ppl_Constraints_Product_Grid_NNC_Polyhedron_widening_assign (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*) [related]

10.23.2.60 int ppl_Constraints_Product_Grid_NNC_Polyhedron_widening_assign_with_tokens (ppl_Constraints_Product_Grid_NNC_Polyhedron_t *x*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *y*, unsigned ∗ *tp*) [related]

10.23.2.61 int ppl_delete_Constraints_Product_Grid_NNC_Polyhedron (ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.62 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_-Shape_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.23.2.63 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_-double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.23.2.64 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_-Shape_float (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.23.2.65 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_-float_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.23.2.66 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_-Shape_int16_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.23.2.67 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int16_-t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.23.2.68 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_-Shape_int32_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.23.2.69 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.23.2.70 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int64_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.23.2.71 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.23.2.72 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int8_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.23.2.73 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.23.2.74 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_long_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.23.2.75 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.23.2.76 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpq_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.23.2.77 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.23.2.78 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpz_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.23.2.79 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.23.2.80 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_C_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.23.2.81 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.23.2.82 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Congruence_System (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.23.2.83 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Constraint_System (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.23.2.84 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Constraints_Product_Grid_NNC_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Constraints_Product_Grid_NNC_Polyhedron_t *ph*) [related]

10.23.2.85 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_-Constraints_Product_Grid_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_-Constraints_Product_Grid_NNC_Polyhedron_t *ph*, int *complexity*) [related]

10.23.2.86 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Double_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.23.2.87 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Double_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.23.2.88 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Float_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.23.2.89 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Float_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.23.2.90 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Grid (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.23.2.91 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Grid_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.23.2.92 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int16_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.23.2.93 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int16_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.23.2.94 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int32_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.23.2.95 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int32_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.23.2.96 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int64_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.23.2.97 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int64_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.23.2.98 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int8_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.23.2.99 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Int8_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.23.2.100 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Long_-Double_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.23.2.101 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) `[related]`

10.23.2.102 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) `[related]`

10.23.2.103 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) `[related]`

10.23.2.104 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) `[related]`

10.23.2.105 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) `[related]`

10.23.2.106 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_float (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) `[related]`

10.23.2.107 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) `[related]`

10.23.2.108 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) `[related]`

10.23.2.109 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.23.2.110 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_int32_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.23.2.111 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.23.2.112 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_int64_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.23.2.113 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.23.2.114 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_int8_t (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.23.2.115 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.23.2.116 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_long_double (ppl_Constraints_Product_Grid_NNC_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.23.2.117 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-long_double_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.23.2.118 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_mpq_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.23.2.119 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.23.2.120 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_-Shape_mpz_class (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.23.2.121 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.23.2.122 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Rational_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.23.2.123 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Rational_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.23.2.124 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_space_dimension (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.23.2.125 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint16_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.23.2.126 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint16_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.23.2.127 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint32_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.23.2.128 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint32_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.23.2.129 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint64_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.23.2.130 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint64_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.23.2.131 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint8_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.23.2.132 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Uint8_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.23.2.133 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Z_Box (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.23.2.134 int ppl_new_Constraints_Product_Grid_NNC_Polyhedron_from_Z_Box_-with_complexity (ppl_Constraints_Product_Grid_NNC_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.24 ppl_Constraints_Product_NNC_Polyhedron_Grid_tag Interface Reference

Types and functions for ppl_Constraints_Product_NNC_Polyhedron_Grid_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_-NNC_Polyhedron_Grid_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_space_dimension (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int8_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int16_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int32_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int64_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint8_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint16_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint32_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint64_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Z_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Rational_Box (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int8_t (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph)

- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int16_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int32_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int64_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpz_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpq_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int8_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int32_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int64_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_mpz_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_mpq_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_C_Polyhedron (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_NNC_Polyhedron (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Grid (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Float_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_float (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_float (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Double_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Long_Double_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_long_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_long_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Constraints_Product_NNC_Polyhedron_Grid (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)

- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int8_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int16_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int32_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int64_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint8_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint16_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint32_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint64_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Z_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Rational_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int16_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int32_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int64_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int8_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int16_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)

- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int32_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int64_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_C_Polyhedron_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_NNC_Polyhedron_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Grid_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Float_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_float_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_float_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Double_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Long_Double_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_long_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Constraints_Product_NNC_Polyhedron_Grid_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, int complexity)
- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Constraint_System (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Constraint_System_t cs)

- int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Congruence_System (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_space_dimension (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type *m)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_dimension (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type *m)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Constraint (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Generator (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Generator_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Congruence (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_empty (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_universe (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_bounded (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_topologically_closed (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_discrete (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_topological_closure_assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounds_from_above (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounds_from_below (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_maximize (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_minimize (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_maximize_with_point (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_minimize_with_point (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_contains_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_strictly_contains_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_disjoint_from_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_equals_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)

- int ppl_Constraints_Product_NNC_Polyhedron_Grid_OK (ppl_const_Constraints_Product_NNC_-Polyhedron_Grid_t ph)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_constraint (ppl_Constraints_Product_-NNC_Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_congruence (ppl_Constraints_Product_-NNC_Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_constraints (ppl_Constraints_Product_-NNC_Polyhedron_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_congruences (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_constraint (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_congruence (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_constraints (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_congruences (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_intersection_assign (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_upper_bound_assign (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_difference_assign (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_concatenate_assign (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_time_elapse_assign (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_upper_bound_assign_if_exact (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_-Polyhedron_Grid_t y)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_constrains (ppl_Constraints_Product_NNC_-Polyhedron_Grid_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_unconstrain_space_dimension (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type var)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_unconstrain_space_dimensions (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_image (ppl_Constraints_Product_-NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_preimage (ppl_Constraints_Product_-NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_-const_Coefficient_t d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounded_affine_image (ppl_Constraints_-Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounded_affine_preimage (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_image (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_preimage (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_image_lhs_rhs (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_preimage_lhs_rhs (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_space_dimensions_and_embed (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_space_dimensions_and_project (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_remove_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_remove_higher_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_expand_space_dimension (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_fold_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_map_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_drop_some_non_integer_points (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, int complexity)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_drop_some_non_integer_points_2 (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_external_memory_in_bytes (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ps, size_t ∗sz)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_total_memory_in_bytes (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t ps, size_t ∗sz)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_widening_assign_with_tokens (ppl_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y, unsigned ∗tp)
- int ppl_Constraints_Product_NNC_Polyhedron_Grid_widening_assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t x, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t y)

10.24.1 Detailed Description

Types and functions for ppl_Constraints_Product_NNC_Polyhedron_Grid_tag.

10.24.2 Friends And Related Function Documentation

10.24.2.1 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_congruence (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.24.2.2 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_congruences (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.24.2.3 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_constraint (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.24.2.4 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_constraints (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.24.2.5 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_space_dimensions_and_-embed (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.24.2.6 int ppl_Constraints_Product_NNC_Polyhedron_Grid_add_space_dimensions_and_-project (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.24.2.7 int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_dimension (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type * *m*) [related]

10.24.2.8 int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_image (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.24.2.9 int ppl_Constraints_Product_NNC_Polyhedron_Grid_affine_preimage (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.24.2.10 int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounded_affine_image (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.24.2.11 int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounded_affine_preimage (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.24.2.12 int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounds_from_above (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.24.2.13 int ppl_Constraints_Product_NNC_Polyhedron_Grid_bounds_from_below (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.24.2.14 int ppl_Constraints_Product_NNC_Polyhedron_Grid_concatenate_-assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.15 int ppl_Constraints_Product_NNC_Polyhedron_Grid_constrains (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.24.2.16 int ppl_Constraints_Product_NNC_Polyhedron_Grid_contains_Constraints_Product_-NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.17 int ppl_Constraints_Product_NNC_Polyhedron_Grid_difference_assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.18 int ppl_Constraints_Product_NNC_Polyhedron_Grid_drop_some_non_integer_points (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, int *complexity*) [related]

10.24.2.19 int ppl_Constraints_Product_NNC_Polyhedron_Grid_drop_some_non_integer_points_2 (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.24.2.20 int ppl_Constraints_Product_NNC_Polyhedron_Grid_equals_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.21 int ppl_Constraints_Product_NNC_Polyhedron_Grid_expand_space_dimension (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.24.2.22 int ppl_Constraints_Product_NNC_Polyhedron_Grid_external_memory_in_bytes (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ps*, size_t * *sz*) [related]

10.24.2.23 int ppl_Constraints_Product_NNC_Polyhedron_Grid_fold_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.24.2.24 int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_image (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.24.2.25 int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_-image_lhs_rhs (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.24.2.26 int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_preimage (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.24.2.27 int ppl_Constraints_Product_NNC_Polyhedron_Grid_generalized_affine_-preimage_lhs_rhs (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.24.2.28 int ppl_Constraints_Product_NNC_Polyhedron_Grid_intersection_-assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) `[related]`

10.24.2.29 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_bounded (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) `[related]`

10.24.2.30 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_discrete (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) `[related]`

10.24.2.31 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_-disjoint_from_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) `[related]`

10.24.2.32 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_empty (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) `[related]`

10.24.2.33 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_topologically_closed (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.34 int ppl_Constraints_Product_NNC_Polyhedron_Grid_is_universe (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.35 int ppl_Constraints_Product_NNC_Polyhedron_Grid_map_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.24.2.36 int ppl_Constraints_Product_NNC_Polyhedron_Grid_maximize (ppl_const_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.24.2.37 int ppl_Constraints_Product_NNC_Polyhedron_Grid_maximize_with_point (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.24.2.38 int ppl_Constraints_Product_NNC_Polyhedron_Grid_minimize (ppl_const_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.24.2.39 int ppl_Constraints_Product_NNC_Polyhedron_Grid_minimize_with_point (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.24.2.40 int ppl_Constraints_Product_NNC_Polyhedron_Grid_OK (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.41 int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_congruence (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.24.2.42 int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_congruences (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.24.2.43 int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_constraint (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.24.2.44 int ppl_Constraints_Product_NNC_Polyhedron_Grid_refine_with_constraints (ppl_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.24.2.45 int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Congruence (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.24.2.46 int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Constraint (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.24.2.47 int ppl_Constraints_Product_NNC_Polyhedron_Grid_relation_with_Generator (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_const_Generator_t *c*) [related]

10.24.2.48 int ppl_Constraints_Product_NNC_Polyhedron_Grid_remove_higher_-space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.24.2.49 int ppl_Constraints_Product_NNC_Polyhedron_Grid_remove_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.24.2.50 int ppl_Constraints_Product_NNC_Polyhedron_Grid_space_dimension (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type * *m*) [related]

10.24.2.51 int ppl_Constraints_Product_NNC_Polyhedron_Grid_strictly_contains_Constraints_-Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_-Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.52 int ppl_Constraints_Product_NNC_Polyhedron_Grid_time_elapse_-assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.53 int ppl_Constraints_Product_NNC_Polyhedron_Grid_topological_closure_assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.54 int ppl_Constraints_Product_NNC_Polyhedron_Grid_total_memory_in_bytes (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ps*, size_t * *sz*) [related]

10.24.2.55 int ppl_Constraints_Product_NNC_Polyhedron_Grid_unconstrain_space_dimension (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.24.2.56 int ppl_Constraints_Product_NNC_Polyhedron_Grid_unconstrain_space_dimensions (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.24.2.57 int ppl_Constraints_Product_NNC_Polyhedron_Grid_upper_-bound_assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.58 int ppl_Constraints_Product_NNC_Polyhedron_Grid_upper_bound_-assign_if_exact (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.59 int ppl_Constraints_Product_NNC_Polyhedron_Grid_widening_-assign (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*) [related]

10.24.2.60 int ppl_Constraints_Product_NNC_Polyhedron_Grid_widening_assign_-with_tokens (ppl_Constraints_Product_NNC_Polyhedron_Grid_t *x*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *y*, unsigned * *tp*) [related]

10.24.2.61 int ppl_delete_Constraints_Product_NNC_Polyhedron_Grid (ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.62 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.24.2.63 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_-double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.24.2.64 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_float (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.24.2.65 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_-float_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.24.2.66 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_int16_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.24.2.67 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int16_-t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.24.2.68 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_int32_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.24.2.69 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int32_-t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.24.2.70 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_int64_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.24.2.71 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int64_-t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.24.2.72 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_-Shape_int8_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.24.2.73 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.24.2.74 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_long_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.24.2.75 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_long_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.24.2.76 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpq_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.24.2.77 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpq_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.24.2.78 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpz_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.24.2.79 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_BD_Shape_mpz_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.24.2.80 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_C_Polyhedron (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.24.2.81 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_C_Polyhedron_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.24.2.82 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Congruence_-System (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.24.2.83 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Constraint_-System (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.24.2.84 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Constraints_-Product_NNC_Polyhedron_Grid (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Constraints_Product_NNC_Polyhedron_Grid_t *ph*) [related]

10.24.2.85 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_-Constraints_Product_NNC_Polyhedron_Grid_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_-Constraints_Product_NNC_Polyhedron_Grid_t *ph*, int *complexity*) [related]

10.24.2.86 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Double_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.24.2.87 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Double_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.24.2.88 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Float_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.24.2.89 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Float_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.24.2.90 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Grid (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.24.2.91 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Grid_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.24.2.92 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int16_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.24.2.93 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int16_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.24.2.94 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int32_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.24.2.95 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int32_Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.24.2.96 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int64_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.24.2.97 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int64_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.24.2.98 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int8_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.24.2.99 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Int8_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.24.2.100 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Long_-Double_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.24.2.101 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Long_Double_-Box_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.24.2.102 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_NNC_Polyhedron (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.24.2.103 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_NNC_Polyhedron_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.24.2.104 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_-Shape_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.24.2.105 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.24.2.106 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_float (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.24.2.107 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_float_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.24.2.108 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int16_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.24.2.109 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int16_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.24.2.110 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int32_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.24.2.111 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int32_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.24.2.112 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_int64_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.24.2.113 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.24.2.114 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_-Shape_int8_t (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.24.2.115 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.24.2.116 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_-Shape_long_double (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.24.2.117 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_-long_double_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.24.2.118 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_-Shape_mpq_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.24.2.119 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.24.2.120 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_-Shape_mpz_class (ppl_Constraints_Product_NNC_Polyhedron_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.24.2.121 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.24.2.122 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Rational_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.24.2.123 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Rational_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.24.2.124 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_space_dimension (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.24.2.125 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint16_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.24.2.126 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint16_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.24.2.127 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint32_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.24.2.128 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint32_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.24.2.129 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint64_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.24.2.130 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint64_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.24.2.131 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint8_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.24.2.132 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Uint8_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.24.2.133 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Z_Box (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.24.2.134 int ppl_new_Constraints_Product_NNC_Polyhedron_Grid_from_Z_Box_-with_complexity (ppl_Constraints_Product_NNC_Polyhedron_Grid_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.25 ppl_Double_Box_tag Interface Reference

Types and functions for ppl_Double_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Double_Box (ppl_const_Double_Box_t ph)
- int ppl_new_Double_Box_from_space_dimension (ppl_Double_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Double_Box_from_Int8_Box (ppl_Double_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Double_Box_from_Int16_Box (ppl_Double_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Double_Box_from_Int32_Box (ppl_Double_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Double_Box_from_Int64_Box (ppl_Double_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Double_Box_from_Uint8_Box (ppl_Double_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Double_Box_from_Uint16_Box (ppl_Double_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Double_Box_from_Uint32_Box (ppl_Double_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Double_Box_from_Uint64_Box (ppl_Double_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Double_Box_from_Z_Box (ppl_Double_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Double_Box_from_Rational_Box (ppl_Double_Box_t *pph, ppl_const_Rational_-Box_t ph)
- int ppl_new_Double_Box_from_BD_Shape_int8_t (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_int8_t_t ph)
- int ppl_new_Double_Box_from_BD_Shape_int16_t (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_int16_t_t ph)
- int ppl_new_Double_Box_from_BD_Shape_int32_t (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_int32_t_t ph)
- int ppl_new_Double_Box_from_BD_Shape_int64_t (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_int64_t_t ph)
- int ppl_new_Double_Box_from_BD_Shape_mpz_class (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_mpz_class_t ph)
- int ppl_new_Double_Box_from_BD_Shape_mpq_class (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_int8_t (ppl_Double_Box_t *pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_int16_t (ppl_Double_Box_t *pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_int32_t (ppl_Double_Box_t *pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_int64_t (ppl_Double_Box_t *pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_mpz_class (ppl_Double_Box_t *pph, ppl_-const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_mpq_class (ppl_Double_Box_t *pph, ppl_-const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Double_Box_from_C_Polyhedron (ppl_Double_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Double_Box_from_NNC_Polyhedron (ppl_Double_Box_t *pph, ppl_const_-Polyhedron_t ph)
- int ppl_new_Double_Box_from_Grid (ppl_Double_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Double_Box_from_Float_Box (ppl_Double_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Double_Box_from_BD_Shape_float (ppl_Double_Box_t *pph, ppl_const_BD_-Shape_float_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_float (ppl_Double_Box_t *pph, ppl_const_-Octagonal_Shape_float_t ph)

- int ppl_new_Double_Box_from_Double_Box (ppl_Double_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Double_Box_from_BD_Shape_double (ppl_Double_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_double (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Double_Box_from_Long_Double_Box (ppl_Double_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Double_Box_from_BD_Shape_long_double (ppl_Double_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Double_Box_from_Octagonal_Shape_long_double (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Double_Box_from_Int8_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Int16_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Int32_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Int64_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Uint8_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Uint16_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Uint32_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Uint64_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Z_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_Rational_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_int8_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_int16_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_int32_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_int64_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)

- int ppl_new_Double_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Double_Box_from_C_Polyhedron_with_complexity (ppl_Double_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Double_Box_from_NNC_Polyhedron_with_complexity (ppl_Double_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Double_Box_from_Grid_with_complexity (ppl_Double_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Double_Box_from_Float_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_float_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_float_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Double_Box_from_Double_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_double_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_double_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Double_Box_from_Long_Double_Box_with_complexity (ppl_Double_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Double_Box_from_BD_Shape_long_double_with_complexity (ppl_Double_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Double_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Double_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Double_Box_from_Constraint_System (ppl_Double_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Double_Box_from_Congruence_System (ppl_Double_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Double_Box_from_Generator_System (ppl_Double_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Double_Box_space_dimension (ppl_const_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Double_Box_affine_dimension (ppl_const_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Double_Box_relation_with_Constraint (ppl_const_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Double_Box_relation_with_Generator (ppl_const_Double_Box_t ph, ppl_const_Generator_t c)
- int ppl_Double_Box_relation_with_Congruence (ppl_const_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Double_Box_get_constraints (ppl_const_Double_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Double_Box_get_congruences (ppl_const_Double_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Double_Box_get_minimized_constraints (ppl_const_Double_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Double_Box_get_minimized_congruences (ppl_const_Double_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Double_Box_is_empty (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_is_universe (ppl_const_Double_Box_t ph)

- int ppl_Double_Box_is_bounded (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_contains_integer_point (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_is_topologically_closed (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_is_discrete (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_topological_closure_assign (ppl_Double_Box_t ph)
- int ppl_Double_Box_bounds_from_above (ppl_const_Double_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Double_Box_bounds_from_below (ppl_const_Double_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Double_Box_maximize (ppl_const_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Double_Box_minimize (ppl_const_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Double_Box_maximize_with_point (ppl_const_Double_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Double_Box_minimize_with_point (ppl_const_Double_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Double_Box_frequency (ppl_const_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_-vd)
- int ppl_Double_Box_contains_Double_Box (ppl_const_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_strictly_contains_Double_Box (ppl_const_Double_Box_t x, ppl_const_-Double_Box_t y)
- int ppl_Double_Box_is_disjoint_from_Double_Box (ppl_const_Double_Box_t x, ppl_const_-Double_Box_t y)
- int ppl_Double_Box_equals_Double_Box (ppl_const_Double_Box_t x, ppl_const_Double_Box_-t y)
- int ppl_Double_Box_OK (ppl_const_Double_Box_t ph)
- int ppl_Double_Box_add_constraint (ppl_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Double_Box_add_congruence (ppl_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Double_Box_add_constraints (ppl_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Double_Box_add_congruences (ppl_Double_Box_t ph, ppl_const_Congruence_System_-t cs)
- int ppl_Double_Box_refine_with_constraint (ppl_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Double_Box_refine_with_congruence (ppl_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Double_Box_refine_with_constraints (ppl_Double_Box_t ph, ppl_const_Constraint_-System_t cs)
- int ppl_Double_Box_refine_with_congruences (ppl_Double_Box_t ph, ppl_const_Congruence_-System_t cs)
- int ppl_Double_Box_intersection_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_upper_bound_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_difference_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_concatenate_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_time_elapse_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_upper_bound_assign_if_exact (ppl_Double_Box_t x, ppl_const_Double_-Box_t y)
- int ppl_Double_Box_simplify_using_context_assign (ppl_Double_Box_t x, ppl_const_Double_-Box_t y)

- int ppl_Double_Box_constrains (ppl_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Double_Box_unconstrain_space_dimension (ppl_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Double_Box_unconstrain_space_dimensions (ppl_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Double_Box_affine_image (ppl_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Double_Box_affine_preimage (ppl_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Double_Box_bounded_affine_image (ppl_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Double_Box_bounded_affine_preimage (ppl_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Double_Box_generalized_affine_image (ppl_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Double_Box_generalized_affine_preimage (ppl_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Double_Box_generalized_affine_image_lhs_rhs (ppl_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Double_Box_add_space_dimensions_and_embed (ppl_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Double_Box_add_space_dimensions_and_project (ppl_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Double_Box_remove_space_dimensions (ppl_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Double_Box_remove_higher_space_dimensions (ppl_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Double_Box_expand_space_dimension (ppl_Double_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Double_Box_fold_space_dimensions (ppl_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Double_Box_map_space_dimensions (ppl_Double_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Double_Box_drop_some_non_integer_points (ppl_Double_Box_t ph, int complexity)
- int ppl_Double_Box_drop_some_non_integer_points_2 (ppl_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Double_Box_external_memory_in_bytes (ppl_const_Double_Box_t ps, size_t *sz)
- int ppl_Double_Box_total_memory_in_bytes (ppl_const_Double_Box_t ps, size_t *sz)
- int ppl_Double_Box_CC76_widening_assign_with_tokens (ppl_Double_Box_t x, ppl_const_Double_Box_t y, unsigned *tp)
- int ppl_Double_Box_CC76_widening_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_widening_assign_with_tokens (ppl_Double_Box_t x, ppl_const_Double_Box_t y, unsigned *tp)
- int ppl_Double_Box_widening_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y)
- int ppl_Double_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Double_Box_t x, ppl_const_Double_Box_t y, ppl_const_Constraint_System_t cs, unsigned *tp)

- int ppl_Double_Box_limited_CC76_extrapolation_assign (ppl_Double_Box_t x, ppl_const_Double_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Double_Box_linear_partition (ppl_const_Double_Box_t x, ppl_const_Double_Box_t y, ppl_Double_Box_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Double_Box_wrap_assign (ppl_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Double_Box_recycle_Constraint_System (ppl_Double_Box_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Double_Box_recycle_Congruence_System (ppl_Double_Box_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Double_Box_recycle_Generator_System (ppl_Double_Box_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Double_Box_from_Double_Box (ppl_Double_Box_t dst, ppl_const_Double_Box_t src)
- int ppl_Double_Box_add_recycled_constraints (ppl_Double_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Double_Box_add_recycled_congruences (ppl_Double_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Double_Box (ppl_const_Double_Box_t pset)
- int ppl_termination_test_PR_Double_Box (ppl_const_Double_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Double_Box (ppl_const_Double_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Double_Box (ppl_const_Double_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Double_Box (ppl_const_Double_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Double_Box (ppl_const_Double_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after)
- int ppl_termination_test_PR_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Double_Box_2 (ppl_const_Double_Box_t pset_before, ppl_const_Double_Box_t pset_after, ppl_Polyhedron_t ph)

10.25.1 Detailed Description

Types and functions for ppl_Double_Box_tag.

10.25.2 Friends And Related Function Documentation

10.25.2.1 int ppl_all_affine_ranking_functions_MS_Double_Box (ppl_const_Double_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.25.2.2 int ppl_all_affine_ranking_functions_MS_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.25.2.3 int ppl_all_affine_ranking_functions_PR_Double_Box (ppl_const_Double_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.25.2.4 int ppl_all_affine_ranking_functions_PR_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.25.2.5 int ppl_assign_Double_Box_from_Double_Box (ppl_Double_Box_t *dst*, ppl_const_Double_Box_t *src*) [related]

10.25.2.6 int ppl_delete_Double_Box (ppl_const_Double_Box_t *ph*) [related]

10.25.2.7 int ppl_Double_Box_add_congruence (ppl_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.25.2.8 int ppl_Double_Box_add_congruences (ppl_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.25.2.9 int ppl_Double_Box_add_constraint (ppl_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.25.2.10 int ppl_Double_Box_add_constraints (ppl_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.25.2.11 int ppl_Double_Box_add_recycled_congruences (ppl_Double_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.25.2.12 int ppl_Double_Box_add_recycled_constraints (ppl_Double_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.25.2.13 int ppl_Double_Box_add_space_dimensions_and_embed (ppl_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.25.2.14 int ppl_Double_Box_add_space_dimensions_and_project (ppl_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.25.2.15 int ppl_Double_Box_affine_dimension (ppl_const_Double_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.25.2.16 int ppl_Double_Box_affine_image (ppl_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.25.2.17 int ppl_Double_Box_affine_preimage (ppl_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.25.2.18 int ppl_Double_Box_bounded_affine_image (ppl_Double_Box_t *ph*, ppl_dimension_-type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.25.2.19 int ppl_Double_Box_bounded_affine_preimage (ppl_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.25.2.20 int ppl_Double_Box_bounds_from_above (ppl_const_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.25.2.21 int ppl_Double_Box_bounds_from_below (ppl_const_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.25.2.22 int ppl_Double_Box_CC76_widening_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.23 int ppl_Double_Box_CC76_widening_assign_with_tokens (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*, unsigned * *tp*) [related]

10.25.2.24 int ppl_Double_Box_concatenate_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.25 int ppl_Double_Box_constrains (ppl_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.25.2.26 int ppl_Double_Box_contains_Double_Box (ppl_const_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.27 int ppl_Double_Box_contains_integer_point (ppl_const_Double_Box_t *ph*) [related]

10.25.2.28 int ppl_Double_Box_difference_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.29 int ppl_Double_Box_drop_some_non_integer_points (ppl_Double_Box_t *ph*, int *complexity*) [related]

10.25.2.30 int ppl_Double_Box_drop_some_non_integer_points_2 (ppl_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.25.2.31 int ppl_Double_Box_equals_Double_Box (ppl_const_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.32 int ppl_Double_Box_expand_space_dimension (ppl_Double_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.25.2.33 int ppl_Double_Box_external_memory_in_bytes (ppl_const_Double_Box_t *ps*, size_t * *sz*) [related]

10.25.2.34 int ppl_Double_Box_fold_space_dimensions (ppl_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.25.2.35 int ppl_Double_Box_frequency (ppl_const_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.25.2.36 int ppl_Double_Box_generalized_affine_image (ppl_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.25.2.37 int ppl_Double_Box_generalized_affine_image_lhs_rhs (ppl_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.25.2.38 int ppl_Double_Box_generalized_affine_preimage (ppl_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.25.2.39 int ppl_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.25.2.40 int ppl_Double_Box_get_congruences (ppl_const_Double_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) `[related]`

10.25.2.41 int ppl_Double_Box_get_constraints (ppl_const_Double_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) `[related]`

10.25.2.42 int ppl_Double_Box_get_minimized_congruences (ppl_const_Double_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) `[related]`

10.25.2.43 int ppl_Double_Box_get_minimized_constraints (ppl_const_Double_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) `[related]`

10.25.2.44 int ppl_Double_Box_intersection_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) `[related]`

10.25.2.45 int ppl_Double_Box_is_bounded (ppl_const_Double_Box_t *ph*) `[related]`

10.25.2.46 int ppl_Double_Box_is_discrete (ppl_const_Double_Box_t *ph*) [related]

10.25.2.47 int ppl_Double_Box_is_disjoint_from_Double_Box (ppl_const_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.48 int ppl_Double_Box_is_empty (ppl_const_Double_Box_t *ph*) [related]

10.25.2.49 int ppl_Double_Box_is_topologically_closed (ppl_const_Double_Box_t *ph*) [related]

10.25.2.50 int ppl_Double_Box_is_universe (ppl_const_Double_Box_t *ph*) [related]

10.25.2.51 int ppl_Double_Box_limited_CC76_extrapolation_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.25.2.52 int ppl_Double_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.25.2.53 int ppl_Double_Box_linear_partition (ppl_const_Double_Box_t *x*, ppl_const_Double_Box_t *y*, ppl_Double_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.25.2.54 int ppl_Double_Box_map_space_dimensions (ppl_Double_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.25.2.55 int ppl_Double_Box_maximize (ppl_const_Double_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.25.2.56 int ppl_Double_Box_maximize_with_point (ppl_const_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.25.2.57 int ppl_Double_Box_minimize (ppl_const_Double_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.25.2.58 int ppl_Double_Box_minimize_with_point (ppl_const_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.25.2.59 int ppl_Double_Box_OK (ppl_const_Double_Box_t *ph*) [related]

10.25.2.60 int ppl_Double_Box_refine_with_congruence (ppl_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.25.2.61 int ppl_Double_Box_refine_with_congruences (ppl_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.25.2.62 int ppl_Double_Box_refine_with_constraint (ppl_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.25.2.63 int ppl_Double_Box_refine_with_constraints (ppl_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.25.2.64 int ppl_Double_Box_relation_with_Congruence (ppl_const_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.25.2.65 int ppl_Double_Box_relation_with_Constraint (ppl_const_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.25.2.66 int ppl_Double_Box_relation_with_Generator (ppl_const_Double_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.25.2.67 int ppl_Double_Box_remove_higher_space_dimensions (ppl_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.25.2.68 int ppl_Double_Box_remove_space_dimensions (ppl_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.25.2.69 int ppl_Double_Box_simplify_using_context_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.70 int ppl_Double_Box_space_dimension (ppl_const_Double_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.25.2.71 int ppl_Double_Box_strictly_contains_Double_Box (ppl_const_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.72 int ppl_Double_Box_time_elapse_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.73 int ppl_Double_Box_topological_closure_assign (ppl_Double_Box_t *ph*) [related]

10.25.2.74 int ppl_Double_Box_total_memory_in_bytes (ppl_const_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.25.2.75 int ppl_Double_Box_unconstrain_space_dimension (ppl_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.25.2.76 int ppl_Double_Box_unconstrain_space_dimensions (ppl_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.25.2.77 int ppl_Double_Box_upper_bound_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.78 int ppl_Double_Box_upper_bound_assign_if_exact (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.79 int ppl_Double_Box_widening_assign (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*) [related]

10.25.2.80 int ppl_Double_Box_widening_assign_with_tokens (ppl_Double_Box_t *x*, ppl_const_Double_Box_t *y*, unsigned ∗ *tp*) [related]

10.25.2.81 int ppl_Double_Box_wrap_assign (ppl_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.25.2.82 int ppl_new_Double_Box_from_BD_Shape_double (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.25.2.83 int ppl_new_Double_Box_from_BD_Shape_double_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.25.2.84 int ppl_new_Double_Box_from_BD_Shape_float (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.25.2.85 int ppl_new_Double_Box_from_BD_Shape_float_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.25.2.86 int ppl_new_Double_Box_from_BD_Shape_int16_t (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.25.2.87 int ppl_new_Double_Box_from_BD_Shape_int16_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.25.2.88 int ppl_new_Double_Box_from_BD_Shape_int32_t (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.25.2.89 int ppl_new_Double_Box_from_BD_Shape_int32_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.25.2.90 int ppl_new_Double_Box_from_BD_Shape_int64_t (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.25.2.91 int ppl_new_Double_Box_from_BD_Shape_int64_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.25.2.92 int ppl_new_Double_Box_from_BD_Shape_int8_t (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.25.2.93 int ppl_new_Double_Box_from_BD_Shape_int8_t_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.25.2.94 int ppl_new_Double_Box_from_BD_Shape_long_double (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.25.2.95 int ppl_new_Double_Box_from_BD_Shape_long_double_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.25.2.96 int ppl_new_Double_Box_from_BD_Shape_mpq_class (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.25.2.97 int ppl_new_Double_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.25.2.98 int ppl_new_Double_Box_from_BD_Shape_mpz_class (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.25.2.99 int ppl_new_Double_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.25.2.100 int ppl_new_Double_Box_from_C_Polyhedron (ppl_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.25.2.101 int ppl_new_Double_Box_from_C_Polyhedron_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.25.2.102 int ppl_new_Double_Box_from_Congruence_System (ppl_Double_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.25.2.103 int ppl_new_Double_Box_from_Constraint_System (ppl_Double_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.25.2.104 int ppl_new_Double_Box_from_Double_Box (ppl_Double_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.25.2.105 int ppl_new_Double_Box_from_Double_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.25.2.106 int ppl_new_Double_Box_from_Float_Box (ppl_Double_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.25.2.107 int ppl_new_Double_Box_from_Float_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.25.2.108 int ppl_new_Double_Box_from_Generator_System (ppl_Double_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.25.2.109 int ppl_new_Double_Box_from_Grid (ppl_Double_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.25.2.110 int ppl_new_Double_Box_from_Grid_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.25.2.111 int ppl_new_Double_Box_from_Int16_Box (ppl_Double_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.25.2.112 int ppl_new_Double_Box_from_Int16_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.25.2.113 int ppl_new_Double_Box_from_Int32_Box (ppl_Double_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.25.2.114 int ppl_new_Double_Box_from_Int32_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.25.2.115 int ppl_new_Double_Box_from_Int64_Box (ppl_Double_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.25.2.116 int ppl_new_Double_Box_from_Int64_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.25.2.117 int ppl_new_Double_Box_from_Int8_Box (ppl_Double_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.25.2.118 int ppl_new_Double_Box_from_Int8_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.25.2.119 int ppl_new_Double_Box_from_Long_Double_Box (ppl_Double_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.25.2.120 int ppl_new_Double_Box_from_Long_Double_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.25.2.121 int ppl_new_Double_Box_from_NNC_Polyhedron (ppl_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.25.2.122 int ppl_new_Double_Box_from_NNC_Polyhedron_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.25.2.123 int ppl_new_Double_Box_from_Octagonal_Shape_double (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.25.2.124 int ppl_new_Double_Box_from_Octagonal_Shape_double_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.25.2.125 int ppl_new_Double_Box_from_Octagonal_Shape_float (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.25.2.126 int ppl_new_Double_Box_from_Octagonal_Shape_float_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.25.2.127 int ppl_new_Double_Box_from_Octagonal_Shape_int16_t (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.25.2.128 int ppl_new_Double_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.25.2.129 int ppl_new_Double_Box_from_Octagonal_Shape_int32_t (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.25.2.130 int ppl_new_Double_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.25.2.131 int ppl_new_Double_Box_from_Octagonal_Shape_int64_t (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.25.2.132 int ppl_new_Double_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.25.2.133 int ppl_new_Double_Box_from_Octagonal_Shape_int8_t (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.25.2.134 int ppl_new_Double_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.25.2.135 int ppl_new_Double_Box_from_Octagonal_Shape_long_double (ppl_Double_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.25.2.136 int ppl_new_Double_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.25.2.137 int ppl_new_Double_Box_from_Octagonal_Shape_mpq_class (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.25.2.138 int ppl_new_Double_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.25.2.139 int ppl_new_Double_Box_from_Octagonal_Shape_mpz_class (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.25.2.140 int ppl_new_Double_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.25.2.141 int ppl_new_Double_Box_from_Rational_Box (ppl_Double_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.25.2.142 int ppl_new_Double_Box_from_Rational_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.25.2.143 int ppl_new_Double_Box_from_space_dimension (ppl_Double_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.25.2.144 int ppl_new_Double_Box_from_Uint16_Box (ppl_Double_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.25.2.145 int ppl_new_Double_Box_from_Uint16_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.25.2.146 int ppl_new_Double_Box_from_Uint32_Box (ppl_Double_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.25.2.147 int ppl_new_Double_Box_from_Uint32_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.25.2.148 int ppl_new_Double_Box_from_Uint64_Box (ppl_Double_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.25.2.149 int ppl_new_Double_Box_from_Uint64_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.25.2.150 int ppl_new_Double_Box_from_Uint8_Box (ppl_Double_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.25.2.151 int ppl_new_Double_Box_from_Uint8_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.25.2.152 int ppl_new_Double_Box_from_Z_Box (ppl_Double_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.25.2.153 int ppl_new_Double_Box_from_Z_Box_with_complexity (ppl_Double_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.25.2.154 int ppl_new_Double_Box_recycle_Congruence_System (ppl_Double_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.25.2.155 int ppl_new_Double_Box_recycle_Constraint_System (ppl_Double_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.25.2.156 int ppl_new_Double_Box_recycle_Generator_System (ppl_Double_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.25.2.157 int ppl_one_affine_ranking_function_MS_Double_Box (ppl_const_Double_Box_t *pset*, ppl_Generator_t *point*) [related]

10.25.2.158 int ppl_one_affine_ranking_function_MS_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.25.2.159 int ppl_one_affine_ranking_function_PR_Double_Box (ppl_const_Double_Box_t *pset*, ppl_Generator_t *point*) [related]

10.25.2.160 int ppl_one_affine_ranking_function_PR_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.25.2.161 int ppl_termination_test_MS_Double_Box (ppl_const_Double_Box_t *pset*) [related]

10.25.2.162 int ppl_termination_test_MS_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*) [related]

10.25.2.163 int ppl_termination_test_PR_Double_Box (ppl_const_Double_Box_t *pset*) [related]

10.25.2.164 int ppl_termination_test_PR_Double_Box_2 (ppl_const_Double_Box_t *pset_before*, ppl_const_Double_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.26 ppl_Float_Box_tag Interface Reference

Types and functions for ppl_Float_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Float_Box (ppl_const_Float_Box_t ph)
- int ppl_new_Float_Box_from_space_dimension (ppl_Float_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Float_Box_from_Int8_Box (ppl_Float_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Float_Box_from_Int16_Box (ppl_Float_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Float_Box_from_Int32_Box (ppl_Float_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Float_Box_from_Int64_Box (ppl_Float_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Float_Box_from_Uint8_Box (ppl_Float_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Float_Box_from_Uint16_Box (ppl_Float_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Float_Box_from_Uint32_Box (ppl_Float_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Float_Box_from_Uint64_Box (ppl_Float_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Float_Box_from_Z_Box (ppl_Float_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Float_Box_from_Rational_Box (ppl_Float_Box_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Float_Box_from_BD_Shape_int8_t (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Float_Box_from_BD_Shape_int16_t (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Float_Box_from_BD_Shape_int32_t (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Float_Box_from_BD_Shape_int64_t (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Float_Box_from_BD_Shape_mpz_class (ppl_Float_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Float_Box_from_BD_Shape_mpq_class (ppl_Float_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)

- int ppl_new_Float_Box_from_Octagonal_Shape_int8_t (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_int16_t (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_int32_t (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_int64_t (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_mpz_class (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_mpq_class (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Float_Box_from_C_Polyhedron (ppl_Float_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Float_Box_from_NNC_Polyhedron (ppl_Float_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Float_Box_from_Grid (ppl_Float_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Float_Box_from_Float_Box (ppl_Float_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Float_Box_from_BD_Shape_float (ppl_Float_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_float (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Float_Box_from_Double_Box (ppl_Float_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Float_Box_from_BD_Shape_double (ppl_Float_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_double (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Float_Box_from_Long_Double_Box (ppl_Float_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Float_Box_from_BD_Shape_long_double (ppl_Float_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Float_Box_from_Octagonal_Shape_long_double (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Float_Box_from_Int8_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Int16_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Int32_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Int64_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Uint8_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Uint16_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Uint32_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Uint64_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Z_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_Rational_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)

- int ppl_new_Float_Box_from_BD_Shape_int8_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_int16_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_int32_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_int64_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Float_Box_from_C_Polyhedron_with_complexity (ppl_Float_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Float_Box_from_NNC_Polyhedron_with_complexity (ppl_Float_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Float_Box_from_Grid_with_complexity (ppl_Float_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Float_Box_from_Float_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_float_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_float_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Float_Box_from_Double_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_double_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_double_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Float_Box_from_Long_Double_Box_with_complexity (ppl_Float_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Float_Box_from_BD_Shape_long_double_with_complexity (ppl_Float_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Float_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Float_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Float_Box_from_Constraint_System (ppl_Float_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Float_Box_from_Congruence_System (ppl_Float_Box_t *pph, ppl_const_Congruence_System_t cs)

- int ppl_new_Float_Box_from_Generator_System (ppl_Float_Box_t ∗pph, ppl_const_Generator_-System_t cs)
- int ppl_Float_Box_space_dimension (ppl_const_Float_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Float_Box_affine_dimension (ppl_const_Float_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Float_Box_relation_with_Constraint (ppl_const_Float_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Float_Box_relation_with_Generator (ppl_const_Float_Box_t ph, ppl_const_Generator_t c)
- int ppl_Float_Box_relation_with_Congruence (ppl_const_Float_Box_t ph, ppl_const_-Congruence_t c)
- int ppl_Float_Box_get_constraints (ppl_const_Float_Box_t ph, ppl_const_Constraint_System_-t ∗pcs)
- int ppl_Float_Box_get_congruences (ppl_const_Float_Box_t ph, ppl_const_Congruence_System_t ∗pcs)
- int ppl_Float_Box_get_minimized_constraints (ppl_const_Float_Box_t ph, ppl_const_Constraint_-System_t ∗pcs)
- int ppl_Float_Box_get_minimized_congruences (ppl_const_Float_Box_t ph, ppl_const_-Congruence_System_t ∗pcs)
- int ppl_Float_Box_is_empty (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_is_universe (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_is_bounded (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_contains_integer_point (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_is_topologically_closed (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_is_discrete (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_topological_closure_assign (ppl_Float_Box_t ph)
- int ppl_Float_Box_bounds_from_above (ppl_const_Float_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Float_Box_bounds_from_below (ppl_const_Float_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Float_Box_maximize (ppl_const_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Float_Box_minimize (ppl_const_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Float_Box_maximize_with_point (ppl_const_Float_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Float_Box_minimize_with_point (ppl_const_Float_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Float_Box_frequency (ppl_const_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Float_Box_contains_Float_Box (ppl_const_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_strictly_contains_Float_Box (ppl_const_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_is_disjoint_from_Float_Box (ppl_const_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_equals_Float_Box (ppl_const_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_OK (ppl_const_Float_Box_t ph)
- int ppl_Float_Box_add_constraint (ppl_Float_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Float_Box_add_congruence (ppl_Float_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Float_Box_add_constraints (ppl_Float_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Float_Box_add_congruences (ppl_Float_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Float_Box_refine_with_constraint (ppl_Float_Box_t ph, ppl_const_Constraint_t c)

- int ppl_Float_Box_refine_with_congruence (ppl_Float_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Float_Box_refine_with_constraints (ppl_Float_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Float_Box_refine_with_congruences (ppl_Float_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Float_Box_intersection_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_upper_bound_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_difference_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_concatenate_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_time_elapse_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_upper_bound_assign_if_exact (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_simplify_using_context_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_constrains (ppl_Float_Box_t ph, ppl_dimension_type var)
- int ppl_Float_Box_unconstrain_space_dimension (ppl_Float_Box_t ph, ppl_dimension_type var)
- int ppl_Float_Box_unconstrain_space_dimensions (ppl_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Float_Box_affine_image (ppl_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Float_Box_affine_preimage (ppl_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Float_Box_bounded_affine_image (ppl_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Float_Box_bounded_affine_preimage (ppl_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Float_Box_generalized_affine_image (ppl_Float_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Float_Box_generalized_affine_preimage (ppl_Float_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Float_Box_generalized_affine_image_lhs_rhs (ppl_Float_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Float_Box_generalized_affine_preimage_lhs_rhs (ppl_Float_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Float_Box_add_space_dimensions_and_embed (ppl_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Float_Box_add_space_dimensions_and_project (ppl_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Float_Box_remove_space_dimensions (ppl_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Float_Box_remove_higher_space_dimensions (ppl_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Float_Box_expand_space_dimension (ppl_Float_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Float_Box_fold_space_dimensions (ppl_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Float_Box_map_space_dimensions (ppl_Float_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Float_Box_drop_some_non_integer_points (ppl_Float_Box_t ph, int complexity)
- int ppl_Float_Box_drop_some_non_integer_points_2 (ppl_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Float_Box_external_memory_in_bytes (ppl_const_Float_Box_t ps, size_t ∗sz)
- int ppl_Float_Box_total_memory_in_bytes (ppl_const_Float_Box_t ps, size_t ∗sz)

- int ppl_Float_Box_CC76_widening_assign_with_tokens (ppl_Float_Box_t x, ppl_const_Float_Box_t y, unsigned *tp)
- int ppl_Float_Box_CC76_widening_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_widening_assign_with_tokens (ppl_Float_Box_t x, ppl_const_Float_Box_t y, unsigned *tp)
- int ppl_Float_Box_widening_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y)
- int ppl_Float_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Float_Box_t x, ppl_const_Float_Box_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Float_Box_limited_CC76_extrapolation_assign (ppl_Float_Box_t x, ppl_const_Float_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Float_Box_linear_partition (ppl_const_Float_Box_t x, ppl_const_Float_Box_t y, ppl_Float_Box_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Float_Box_wrap_assign (ppl_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Float_Box_recycle_Constraint_System (ppl_Float_Box_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Float_Box_recycle_Congruence_System (ppl_Float_Box_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Float_Box_recycle_Generator_System (ppl_Float_Box_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Float_Box_from_Float_Box (ppl_Float_Box_t dst, ppl_const_Float_Box_t src)
- int ppl_Float_Box_add_recycled_constraints (ppl_Float_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Float_Box_add_recycled_congruences (ppl_Float_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Float_Box (ppl_const_Float_Box_t pset)
- int ppl_termination_test_PR_Float_Box (ppl_const_Float_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Float_Box (ppl_const_Float_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Float_Box (ppl_const_Float_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Float_Box (ppl_const_Float_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Float_Box (ppl_const_Float_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after)
- int ppl_termination_test_PR_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Float_Box_2 (ppl_const_Float_Box_t pset_before, ppl_const_Float_Box_t pset_after, ppl_Polyhedron_t ph)

10.26.1 Detailed Description

Types and functions for ppl_Float_Box_tag.

10.26.2 Friends And Related Function Documentation

10.26.2.1 int ppl_all_affine_ranking_functions_MS_Float_Box (ppl_const_Float_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.26.2.2 int ppl_all_affine_ranking_functions_MS_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.26.2.3 int ppl_all_affine_ranking_functions_PR_Float_Box (ppl_const_Float_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.26.2.4 int ppl_all_affine_ranking_functions_PR_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.26.2.5 int ppl_assign_Float_Box_from_Float_Box (ppl_Float_Box_t *dst*, ppl_const_Float_Box_t *src*) [related]

10.26.2.6 int ppl_delete_Float_Box (ppl_const_Float_Box_t *ph*) [related]

10.26.2.7 int ppl_Float_Box_add_congruence (ppl_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.26.2.8 int ppl_Float_Box_add_congruences (ppl_Float_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.26.2.9 int ppl_Float_Box_add_constraint (ppl_Float_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.26.2.10 int ppl_Float_Box_add_constraints (ppl_Float_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.26.2.11 int ppl_Float_Box_add_recycled_congruences (ppl_Float_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.26.2.12 int ppl_Float_Box_add_recycled_constraints (ppl_Float_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.26.2.13 int ppl_Float_Box_add_space_dimensions_and_embed (ppl_Float_Box_t *ph*, ppl_dimension_type *d*) [related]

10.26.2.14 int ppl_Float_Box_add_space_dimensions_and_project (ppl_Float_Box_t *ph*, ppl_dimension_type *d*) [related]

10.26.2.15 int ppl_Float_Box_affine_dimension (ppl_const_Float_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.26.2.16 int ppl_Float_Box_affine_image (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.26.2.17 int ppl_Float_Box_affine_preimage (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.26.2.18 int ppl_Float_Box_bounded_affine_image (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.26.2.19 int ppl_Float_Box_bounded_affine_preimage (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.26.2.20 int ppl_Float_Box_bounds_from_above (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.26.2.21 int ppl_Float_Box_bounds_from_below (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.26.2.22 int ppl_Float_Box_CC76_widening_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.23 int ppl_Float_Box_CC76_widening_assign_with_tokens (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*, unsigned ∗ *tp*) [related]

10.26.2.24 int ppl_Float_Box_concatenate_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.25 int ppl_Float_Box_constrains (ppl_Float_Box_t *ph*, ppl_dimension_type *var*) [related]

10.26.2.26 int ppl_Float_Box_contains_Float_Box (ppl_const_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.27 int ppl_Float_Box_contains_integer_point (ppl_const_Float_Box_t *ph*) [related]

10.26.2.28 int ppl_Float_Box_difference_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) `[related]`

10.26.2.29 int ppl_Float_Box_drop_some_non_integer_points (ppl_Float_Box_t *ph*, int *complexity*) `[related]`

10.26.2.30 int ppl_Float_Box_drop_some_non_integer_points_2 (ppl_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) `[related]`

10.26.2.31 int ppl_Float_Box_equals_Float_Box (ppl_const_Float_Box_t *x*, ppl_const_Float_Box_t *y*) `[related]`

10.26.2.32 int ppl_Float_Box_expand_space_dimension (ppl_Float_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.26.2.33 int ppl_Float_Box_external_memory_in_bytes (ppl_const_Float_Box_t *ps*, size_t ∗ *sz*) `[related]`

10.26.2.34 int ppl_Float_Box_fold_space_dimensions (ppl_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.26.2.35 int ppl_Float_Box_frequency (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) `[related]`

10.26.2.36 int ppl_Float_Box_generalized_affine_image (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.26.2.37 int ppl_Float_Box_generalized_affine_image_lhs_rhs (ppl_Float_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.26.2.38 int ppl_Float_Box_generalized_affine_preimage (ppl_Float_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.26.2.39 int ppl_Float_Box_generalized_affine_preimage_lhs_rhs (ppl_Float_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.26.2.40 int ppl_Float_Box_get_congruences (ppl_const_Float_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.26.2.41 int ppl_Float_Box_get_constraints (ppl_const_Float_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.26.2.42 int ppl_Float_Box_get_minimized_congruences (ppl_const_Float_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.26.2.43 int ppl_Float_Box_get_minimized_constraints (ppl_const_Float_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.26.2.44 int ppl_Float_Box_intersection_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.45 int ppl_Float_Box_is_bounded (ppl_const_Float_Box_t *ph*) [related]

10.26.2.46 int ppl_Float_Box_is_discrete (ppl_const_Float_Box_t *ph*) [related]

10.26.2.47 int ppl_Float_Box_is_disjoint_from_Float_Box (ppl_const_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.48 int ppl_Float_Box_is_empty (ppl_const_Float_Box_t *ph*) [related]

10.26.2.49 int ppl_Float_Box_is_topologically_closed (ppl_const_Float_Box_t *ph*) [related]

10.26.2.50 int ppl_Float_Box_is_universe (ppl_const_Float_Box_t *ph*) [related]

10.26.2.51 int ppl_Float_Box_limited_CC76_extrapolation_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.26.2.52 int ppl_Float_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.26.2.53 int ppl_Float_Box_linear_partition (ppl_const_Float_Box_t *x*, ppl_const_Float_Box_t *y*, ppl_Float_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.26.2.54 int ppl_Float_Box_map_space_dimensions (ppl_Float_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.26.2.55 int ppl_Float_Box_maximize (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.26.2.56 int ppl_Float_Box_maximize_with_point (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.26.2.57 int ppl_Float_Box_minimize (ppl_const_Float_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.26.2.58 int ppl_Float_Box_minimize_with_point (ppl_const_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.26.2.59 int ppl_Float_Box_OK (ppl_const_Float_Box_t *ph*) [related]

10.26.2.60 int ppl_Float_Box_refine_with_congruence (ppl_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.26.2.61 int ppl_Float_Box_refine_with_congruences (ppl_Float_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.26.2.62 int ppl_Float_Box_refine_with_constraint (ppl_Float_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.26.2.63 int ppl_Float_Box_refine_with_constraints (ppl_Float_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.26.2.64 int ppl_Float_Box_relation_with_Congruence (ppl_const_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.26.2.65 int ppl_Float_Box_relation_with_Constraint (ppl_const_Float_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.26.2.66 int ppl_Float_Box_relation_with_Generator (ppl_const_Float_Box_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.26.2.67 int ppl_Float_Box_remove_higher_space_dimensions (ppl_Float_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.26.2.68 int ppl_Float_Box_remove_space_dimensions (ppl_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.26.2.69 int ppl_Float_Box_simplify_using_context_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) `[related]`

10.26.2.70 int ppl_Float_Box_space_dimension (ppl_const_Float_Box_t *ph*, ppl_dimension_type * *m*) `[related]`

10.26.2.71 int ppl_Float_Box_strictly_contains_Float_Box (ppl_const_Float_Box_t *x*, ppl_const_Float_Box_t *y*) `[related]`

10.26.2.72 int ppl_Float_Box_time_elapse_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) `[related]`

10.26.2.73 int ppl_Float_Box_topological_closure_assign (ppl_Float_Box_t *ph*) `[related]`

10.26.2.74 int ppl_Float_Box_total_memory_in_bytes (ppl_const_Float_Box_t *ps*, size_t * *sz*) `[related]`

10.26.2.75 int ppl_Float_Box_unconstrain_space_dimension (ppl_Float_Box_t *ph*, ppl_dimension_type *var*) [related]

10.26.2.76 int ppl_Float_Box_unconstrain_space_dimensions (ppl_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.26.2.77 int ppl_Float_Box_upper_bound_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.78 int ppl_Float_Box_upper_bound_assign_if_exact (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.79 int ppl_Float_Box_widening_assign (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*) [related]

10.26.2.80 int ppl_Float_Box_widening_assign_with_tokens (ppl_Float_Box_t *x*, ppl_const_Float_Box_t *y*, unsigned ∗ *tp*) [related]

10.26.2.81 int ppl_Float_Box_wrap_assign (ppl_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.26.2.82 int ppl_new_Float_Box_from_BD_Shape_double (ppl_Float_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.26.2.83 int ppl_new_Float_Box_from_BD_Shape_double_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.26.2.84 int ppl_new_Float_Box_from_BD_Shape_float (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.26.2.85 int ppl_new_Float_Box_from_BD_Shape_float_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.26.2.86 int ppl_new_Float_Box_from_BD_Shape_int16_t (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.26.2.87 int ppl_new_Float_Box_from_BD_Shape_int16_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.26.2.88 int ppl_new_Float_Box_from_BD_Shape_int32_t (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.26.2.89 int ppl_new_Float_Box_from_BD_Shape_int32_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.26.2.90 int ppl_new_Float_Box_from_BD_Shape_int64_t (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.26.2.91 int ppl_new_Float_Box_from_BD_Shape_int64_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.26.2.92 int ppl_new_Float_Box_from_BD_Shape_int8_t (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.26.2.93 int ppl_new_Float_Box_from_BD_Shape_int8_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.26.2.94 int ppl_new_Float_Box_from_BD_Shape_long_double (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.26.2.95 int ppl_new_Float_Box_from_BD_Shape_long_double_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.26.2.96 int ppl_new_Float_Box_from_BD_Shape_mpq_class (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.26.2.97 int ppl_new_Float_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.26.2.98 int ppl_new_Float_Box_from_BD_Shape_mpz_class (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.26.2.99 int ppl_new_Float_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.26.2.100 int ppl_new_Float_Box_from_C_Polyhedron (ppl_Float_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.26.2.101 int ppl_new_Float_Box_from_C_Polyhedron_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.26.2.102 int ppl_new_Float_Box_from_Congruence_System (ppl_Float_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.26.2.103 int ppl_new_Float_Box_from_Constraint_System (ppl_Float_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.26.2.104 int ppl_new_Float_Box_from_Double_Box (ppl_Float_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.26.2.105 int ppl_new_Float_Box_from_Double_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.26.2.106 int ppl_new_Float_Box_from_Float_Box (ppl_Float_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.26.2.107 int ppl_new_Float_Box_from_Float_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.26.2.108 int ppl_new_Float_Box_from_Generator_System (ppl_Float_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.26.2.109 int ppl_new_Float_Box_from_Grid (ppl_Float_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.26.2.110 int ppl_new_Float_Box_from_Grid_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.26.2.111 int ppl_new_Float_Box_from_Int16_Box (ppl_Float_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.26.2.112 int ppl_new_Float_Box_from_Int16_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.26.2.113 int ppl_new_Float_Box_from_Int32_Box (ppl_Float_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.26.2.114 int ppl_new_Float_Box_from_Int32_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.26.2.115 int ppl_new_Float_Box_from_Int64_Box (ppl_Float_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.26.2.116 int ppl_new_Float_Box_from_Int64_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.26.2.117 int ppl_new_Float_Box_from_Int8_Box (ppl_Float_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.26.2.118 int ppl_new_Float_Box_from_Int8_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.26.2.119 int ppl_new_Float_Box_from_Long_Double_Box (ppl_Float_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.26.2.120 int ppl_new_Float_Box_from_Long_Double_Box_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.26.2.121 int ppl_new_Float_Box_from_NNC_Polyhedron (ppl_Float_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.26.2.122 int ppl_new_Float_Box_from_NNC_Polyhedron_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.26.2.123 int ppl_new_Float_Box_from_Octagonal_Shape_double (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.26.2.124 int ppl_new_Float_Box_from_Octagonal_Shape_double_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.26.2.125 int ppl_new_Float_Box_from_Octagonal_Shape_float (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.26.2.126 int ppl_new_Float_Box_from_Octagonal_Shape_float_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.26.2.127 int ppl_new_Float_Box_from_Octagonal_Shape_int16_t (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.26.2.128 int ppl_new_Float_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Float_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.26.2.129 int ppl_new_Float_Box_from_Octagonal_Shape_int32_t (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.26.2.130 int ppl_new_Float_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.26.2.131 int ppl_new_Float_Box_from_Octagonal_Shape_int64_t (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.26.2.132 int ppl_new_Float_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.26.2.133 int ppl_new_Float_Box_from_Octagonal_Shape_int8_t (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.26.2.134 int ppl_new_Float_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.26.2.135 int ppl_new_Float_Box_from_Octagonal_Shape_long_double (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.26.2.136 int ppl_new_Float_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.26.2.137 int ppl_new_Float_Box_from_Octagonal_Shape_mpq_class (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.26.2.138 int ppl_new_Float_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.26.2.139 int ppl_new_Float_Box_from_Octagonal_Shape_mpz_class (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.26.2.140 int ppl_new_Float_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.26.2.141 int ppl_new_Float_Box_from_Rational_Box (ppl_Float_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.26.2.142 int ppl_new_Float_Box_from_Rational_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.26.2.143 int ppl_new_Float_Box_from_space_dimension (ppl_Float_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.26.2.144 int ppl_new_Float_Box_from_Uint16_Box (ppl_Float_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.26.2.145 int ppl_new_Float_Box_from_Uint16_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.26.2.146 int ppl_new_Float_Box_from_Uint32_Box (ppl_Float_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.26.2.147 int ppl_new_Float_Box_from_Uint32_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.26.2.148 int ppl_new_Float_Box_from_Uint64_Box (ppl_Float_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.26.2.149 int ppl_new_Float_Box_from_Uint64_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.26.2.150 int ppl_new_Float_Box_from_Uint8_Box (ppl_Float_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.26.2.151 int ppl_new_Float_Box_from_Uint8_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.26.2.152 int ppl_new_Float_Box_from_Z_Box (ppl_Float_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.26.2.153 int ppl_new_Float_Box_from_Z_Box_with_complexity (ppl_Float_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.26.2.154 int ppl_new_Float_Box_recycle_Congruence_System (ppl_Float_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.26.2.155 int ppl_new_Float_Box_recycle_Constraint_System (ppl_Float_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.26.2.156 int ppl_new_Float_Box_recycle_Generator_System (ppl_Float_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.26.2.157 int ppl_one_affine_ranking_function_MS_Float_Box (ppl_const_Float_Box_t *pset*, ppl_Generator_t *point*) [related]

10.26.2.158 int ppl_one_affine_ranking_function_MS_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.26.2.159 int ppl_one_affine_ranking_function_PR_Float_Box (ppl_const_Float_Box_t *pset*, ppl_Generator_t *point*) [related]

10.26.2.160 int ppl_one_affine_ranking_function_PR_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.26.2.161 int ppl_termination_test_MS_Float_Box (ppl_const_Float_Box_t *pset*) [related]

10.26.2.162 int ppl_termination_test_MS_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*) [related]

10.26.2.163 int ppl_termination_test_PR_Float_Box (ppl_const_Float_Box_t *pset*) [related]

10.26.2.164 int ppl_termination_test_PR_Float_Box_2 (ppl_const_Float_Box_t *pset_before*, ppl_const_Float_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.27 ppl_Generator_System_const_iterator_tag Interface Reference

Types and functions for iterating on generator systems.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Generator_System_const_iterator (ppl_Generator_System_const_iterator_t *pgit)

  Builds a new 'const iterator' and writes a handle to it at address `pgit`*.*

- int ppl_new_Generator_System_const_iterator_from_Generator_System_const_iterator (ppl_-Generator_System_const_iterator_t *pgit, ppl_const_Generator_System_const_iterator_t git)

  Builds a const iterator that is a copy of `git`*; writes a handle for the newly created const iterator at address* `pgit`*.*

- int ppl_assign_Generator_System_const_iterator_from_Generator_System_const_iterator (ppl_-Generator_System_const_iterator_t dst, ppl_const_Generator_System_const_iterator_t src)

  Assigns a copy of the const iterator `src` *to* `dst`*.*

- int ppl_delete_Generator_System_const_iterator (ppl_const_Generator_System_const_iterator_t git)

  Invalidates the handle `git` *: this makes sure the corresponding resources will eventually be released.*

Dereferencing, Incrementing and Equality Testing

- int ppl_Generator_System_const_iterator_dereference (ppl_const_Generator_System_const_-iterator_t git, ppl_const_Generator_t *pg)

  Dereference `git` *writing a const handle to the resulting generator at address* `pg`*.*

- int ppl_Generator_System_const_iterator_increment (ppl_Generator_System_const_iterator_-t git)

  Increment `git` *so that it "points" to the next generator.*

- int ppl_Generator_System_const_iterator_equal_test (ppl_const_Generator_System_const_-iterator_t x, ppl_const_Generator_System_const_iterator_t y)

  Returns a positive integer if the iterators corresponding to `x` *and* `y` *are equal; returns 0 if they are different.*

10.27.1 Detailed Description

Types and functions for iterating on generator systems. The types and functions for generator systems iterators provide read-only access to the elements of a generator system by interfacing *Generator_-System::const_iterator*.

10.27.2 Friends And Related Function Documentation

10.27.2.1 int ppl_assign_Generator_System_const_iterator_from_Generator_System_const_iterator (ppl_Generator_System_const_iterator_t *dst*, ppl_const_Generator_System_const_iterator_t *src*) [related]

Assigns a copy of the const iterator `src` to `dst`.

Definition at line 1206 of file ppl_c_implementation_common.cc.

10.27.2.2 int ppl_delete_Generator_System_const_iterator (ppl_const_Generator_System_const_iterator_t *git*) [related]

Invalidates the handle `git`: this makes sure the corresponding resources will eventually be released.

Definition at line 1198 of file ppl_c_implementation_common.cc.

10.27.2.3 int ppl_Generator_System_const_iterator_dereference (ppl_const_Generator_System_const_iterator_t *git*, ppl_const_Generator_t ∗ *pg*) [related]

Dereference `git` writing a const handle to the resulting generator at address `pg`.

Definition at line 1237 of file ppl_c_implementation_common.cc.

10.27.2.4 int ppl_Generator_System_const_iterator_equal_test (ppl_const_Generator_System_const_iterator_t *x*, ppl_const_Generator_System_const_iterator_t *y*) [related]

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

Definition at line 1257 of file ppl_c_implementation_common.cc.

10.27.2.5 int ppl_Generator_System_const_iterator_increment (ppl_Generator_System_const_iterator_t *git*) [related]

Increment `git` so that it "points" to the next generator.

Definition at line 1248 of file ppl_c_implementation_common.cc.

10.27.2.6 int ppl_new_Generator_System_const_iterator (ppl_Generator_System_const_iterator_t ∗ *pgit*) [related]

Builds a new ‘const iterator’ and writes a handle to it at address `pgit`.

Definition at line 1181 of file ppl_c_implementation_common.cc.

10.27.2.7 int ppl_new_Generator_System_const_iterator_from_Generator_-System_const_iterator (ppl_Generator_System_const_iterator_t ∗ *pgit*, ppl_const_Generator_System_const_iterator_t *git*) [related]

Builds a const iterator that is a copy of `git`; writes a handle for the newly created const iterator at address `pgit`.

Definition at line 1189 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.28 ppl_Generator_System_tag Interface Reference

Types and functions for generator systems.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Generator_System (ppl_Generator_System_t ∗pgs)
  Builds an empty system of generators and writes a handle to it at address `pgs`*.*
- int ppl_new_Generator_System_from_Generator (ppl_Generator_System_t ∗pgs, ppl_const_-Generator_t g)
  Builds the singleton generator system containing only a copy of generator `g`*; writes a handle for the newly created system at address* `pgs`*.*
- int ppl_new_Generator_System_from_Generator_System (ppl_Generator_System_t ∗pgs, ppl_-const_Generator_System_t gs)
  Builds a generator system that is a copy of `gs`*; writes a handle for the newly created system at address* `pgs`*.*
- int ppl_assign_Generator_System_from_Generator_System (ppl_Generator_System_t dst, ppl_-const_Generator_System_t src)
  Assigns a copy of the generator system `src` *to* `dst`*.*
- int ppl_delete_Generator_System (ppl_const_Generator_System_t gs)
  Invalidates the handle `gs`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Generator System

- int ppl_Generator_System_space_dimension (ppl_const_Generator_System_t gs, ppl_-dimension_type ∗m)

Writes to m *the dimension of the vector space enclosing* gs.

- int ppl_Generator_System_empty (ppl_const_Generator_System_t gs)

  Returns a positive integer if gs *contains no generators; returns 0 otherwise.*

- int ppl_Generator_System_begin (ppl_const_Generator_System_t gs, ppl_Generator_System_-const_iterator_t git)

  Assigns to git *a const iterator "pointing" to the beginning of the generator system* gs.

- int ppl_Generator_System_end (ppl_const_Generator_System_t gs, ppl_Generator_System_-const_iterator_t git)

  Assigns to git *a const iterator "pointing" past the end of the generator system* gs.

- int ppl_Generator_System_OK (ppl_const_Generator_System_t gs)

  Returns a positive integer if gs *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* gs *is broken. Useful for debugging purposes.*

Functions that May Modify the Generator System

- int ppl_Generator_System_clear (ppl_Generator_System_t gs)

  Removes all the generators from the generator system gs *and sets its space dimension to 0.*

- int ppl_Generator_System_insert_Generator (ppl_Generator_System_t gs, ppl_const_-Generator_t g)

  Inserts a copy of the generator g *into* gs*; the space dimension is increased, if necessary.*

10.28.1 Detailed Description

Types and functions for generator systems. The types and functions for generator systems provide an interface towards *Generator_System*.

10.28.2 Friends And Related Function Documentation

10.28.2.1 int ppl_assign_Generator_System_from_Generator_System (ppl_Generator_System_t *dst*, ppl_const_Generator_System_t *src*) [related]

Assigns a copy of the generator system src to dst.

Definition at line 1130 of file ppl_c_implementation_common.cc.

10.28.2.2 int ppl_delete_Generator_System (ppl_const_Generator_System_t *gs*) [related]

Invalidates the handle gs: this makes sure the corresponding resources will eventually be released.

Definition at line 1122 of file ppl_c_implementation_common.cc.

10.28.2.3 int ppl_Generator_System_begin (ppl_const_Generator_System_t *gs*, ppl_Generator_System_const_iterator_t *git*) [related]

Assigns to `git` a const iterator "pointing" to the beginning of the generator system `gs`.

Definition at line 1216 of file ppl_c_implementation_common.cc.

10.28.2.4 int ppl_Generator_System_clear (ppl_Generator_System_t *gs*) [related]

Removes all the generators from the generator system `gs` and sets its space dimension to 0.

Definition at line 1155 of file ppl_c_implementation_common.cc.

10.28.2.5 int ppl_Generator_System_empty (ppl_const_Generator_System_t *gs*) [related]

Returns a positive integer if `gs` contains no generators; returns 0 otherwise.

Definition at line 1148 of file ppl_c_implementation_common.cc.

10.28.2.6 int ppl_Generator_System_end (ppl_const_Generator_System_t *gs*, ppl_Generator_System_const_iterator_t *git*) [related]

Assigns to `git` a const iterator "pointing" past the end of the generator system `gs`.

Definition at line 1226 of file ppl_c_implementation_common.cc.

10.28.2.7 int ppl_Generator_System_insert_Generator (ppl_Generator_System_t *gs*, ppl_const_Generator_t *g*) [related]

Inserts a copy of the generator `g` into `gs`; the space dimension is increased, if necessary.

Definition at line 1162 of file ppl_c_implementation_common.cc.

10.28.2.8 int ppl_Generator_System_OK (ppl_const_Generator_System_t *gs*) [related]

Returns a positive integer if `gs` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `gs` is broken. Useful for debugging purposes.

Definition at line 1172 of file ppl_c_implementation_common.cc.

10.28.2.9 int ppl_Generator_System_space_dimension (ppl_const_Generator_System_t *gs*, ppl_dimension_type * *m*) [related]

Writes to m the dimension of the vector space enclosing gs.

Definition at line 1139 of file ppl_c_implementation_common.cc.

10.28.2.10 int ppl_new_Generator_System (ppl_Generator_System_t * *pgs*) [related]

Builds an empty system of generators and writes a handle to it at address pgs.

Definition at line 1090 of file ppl_c_implementation_common.cc.

10.28.2.11 int ppl_new_Generator_System_from_Generator (ppl_Generator_System_t * *pgs*, ppl_const_Generator_t *g*) [related]

Builds the singleton generator system containing only a copy of generator g; writes a handle for the newly created system at address pgs.

Definition at line 1104 of file ppl_c_implementation_common.cc.

10.28.2.12 int ppl_new_Generator_System_from_Generator_System (ppl_Generator_System_t * *pgs*, ppl_const_Generator_System_t *gs*) [related]

Builds a generator system that is a copy of gs; writes a handle for the newly created system at address pgs.

Definition at line 1114 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.29 ppl_Generator_tag Interface Reference

Types and functions for generators.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Generator (ppl_Generator_t *pg, ppl_const_Linear_Expression_t le, enum ppl_enum_Generator_Type t, ppl_const_Coefficient_t d)

  Creates a new generator of direction le *and type* t*. If the generator to be created is a point or a closure point, the divisor* d *is applied to* le*. For other types of generators* d *is simply disregarded. A handle for the new generator is written at address* pg*. The space dimension of the new generator is equal to the space dimension of* le*.*

- int ppl_new_Generator_zero_dim_point (ppl_Generator_t *pg)

  Creates the point that is the origin of the zero-dimensional space $\mathbb{R}^0$*. Writes a handle for the new generator at address* `pg`*.*

- int ppl_new_Generator_zero_dim_closure_point (ppl_Generator_t *pg)

  Creates, as a closure point, the point that is the origin of the zero-dimensional space $\mathbb{R}^0$*. Writes a handle for the new generator at address* `pg`*.*

- int ppl_new_Generator_from_Generator (ppl_Generator_t *pg, ppl_const_Generator_t g)

  Builds a generator that is a copy of `g`*; writes a handle for the newly created generator at address* `pg`*.*

- int ppl_assign_Generator_from_Generator (ppl_Generator_t dst, ppl_const_Generator_t src)

  Assigns a copy of the generator `src` *to* `dst`*.*

- int ppl_delete_Generator (ppl_const_Generator_t g)

  Invalidates the handle `g`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Generator

- int ppl_Generator_space_dimension (ppl_const_Generator_t g, ppl_dimension_type *m)

  Writes to `m` *the space dimension of* `g`*.*

- int ppl_Generator_type (ppl_const_Generator_t g)

  Returns the type of generator `g`*.*

- int ppl_Generator_coefficient (ppl_const_Generator_t g, ppl_dimension_type var, ppl_Coefficient_t n)

  Copies into `n` *the coefficient of variable* `var` *in generator* `g`*.*

- int ppl_Generator_divisor (ppl_const_Generator_t g, ppl_Coefficient_t n)

  If `g` *is a point or a closure point assigns its divisor to* `n`*.*

- int ppl_Generator_OK (ppl_const_Generator_t g)

  Returns a positive integer if `g` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `g` *is broken. Useful for debugging purposes.*

10.29.1 Detailed Description

Types and functions for generators. The types and functions for generators provide an interface towards *Generator*.

10.29.2 Friends And Related Function Documentation

10.29.2.1 int ppl_assign_Generator_from_Generator (ppl_Generator_t *dst*, ppl_const_Generator_t *src*) `[related]`

Assigns a copy of the generator `src` to `dst`.

Definition at line 1017 of file ppl_c_implementation_common.cc.

10.29.2.2 int ppl_delete_Generator (ppl_const_Generator_t *g*) [related]

Invalidates the handle `g`: this makes sure the corresponding resources will eventually be released.

Definition at line 1010 of file ppl_c_implementation_common.cc.

10.29.2.3 int ppl_Generator_coefficient (ppl_const_Generator_t *g*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Copies into `n` the coefficient of variable `var` in generator `g`.

Definition at line 1052 of file ppl_c_implementation_common.cc.

10.29.2.4 int ppl_Generator_divisor (ppl_const_Generator_t *g*, ppl_Coefficient_t *n*) [related]

If `g` is a point or a closure point assigns its divisor to `n`.

Definition at line 1063 of file ppl_c_implementation_common.cc.

10.29.2.5 int ppl_Generator_OK (ppl_const_Generator_t *g*) [related]

Returns a positive integer if `g` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `g` is broken. Useful for debugging purposes.

Definition at line 1073 of file ppl_c_implementation_common.cc.

10.29.2.6 int ppl_Generator_space_dimension (ppl_const_Generator_t *g*, ppl_dimension_type ∗ *m*) [related]

Writes to `m` the space dimension of `g`.

Definition at line 1027 of file ppl_c_implementation_common.cc.

10.29.2.7 int ppl_Generator_type (ppl_const_Generator_t *g*) [related]

Returns the type of generator `g`.

Definition at line 1035 of file ppl_c_implementation_common.cc.

10.29.2.8 int ppl_new_Generator (ppl_Generator_t ∗ *pg*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Generator_Type *t*, ppl_const_Coefficient_t *d*) [related]

Creates a new generator of direction le and type t. If the generator to be created is a point or a closure point, the divisor d is applied to le. For other types of generators d is simply disregarded. A handle for the new generator is written at address pg. The space dimension of the new generator is equal to the space dimension of le.

Definition at line 957 of file ppl_c_implementation_common.cc.

10.29.2.9 int ppl_new_Generator_from_Generator (ppl_Generator_t * *pg*, ppl_const_Generator_t *g*) [related]

Builds a generator that is a copy of g; writes a handle for the newly created generator at address pg.

Definition at line 1001 of file ppl_c_implementation_common.cc.

10.29.2.10 int ppl_new_Generator_zero_dim_closure_point (ppl_Generator_t * *pg*) [related]

Creates, as a closure point, the point that is the origin of the zero-dimensional space $\mathbb{R}^0$. Writes a handle for the new generator at address pg.

Definition at line 994 of file ppl_c_implementation_common.cc.

10.29.2.11 int ppl_new_Generator_zero_dim_point (ppl_Generator_t * *pg*) [related]

Creates the point that is the origin of the zero-dimensional space $\mathbb{R}^0$. Writes a handle for the new generator at address pg.

Definition at line 987 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.30 ppl_Grid_Generator_System_const_iterator_tag Interface Reference

Types and functions for iterating on grid generator systems.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *pgit)

  Builds a new 'const iterator' and writes a handle to it at address pgit.

- int ppl_new_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *pgit, ppl_const_Grid_Generator_System_const_iterator_t git)

    Builds a const iterator that is a copy of `git`; writes a handle for the newly created const iterator at address `pgit`.

- int ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t dst, ppl_const_Grid_Generator_System_const_iterator_t src)

    Assigns a copy of the const iterator `src` to `dst`.

- int ppl_delete_Grid_Generator_System_const_iterator (ppl_const_Grid_Generator_System_const_iterator_t git)

    Invalidates the handle `git`: this makes sure the corresponding resources will eventually be released.

Dereferencing, Incrementing and Equality Testing

- int ppl_Grid_Generator_System_const_iterator_dereference (ppl_const_Grid_Generator_System_const_iterator_t git, ppl_const_Grid_Generator_t *pg)

    Dereference `git` writing a const handle to the resulting grid generator at address `pg`.

- int ppl_Grid_Generator_System_const_iterator_increment (ppl_Grid_Generator_System_const_iterator_t git)

    Increment `git` so that it "points" to the next grid generator.

- int ppl_Grid_Generator_System_const_iterator_equal_test (ppl_const_Grid_Generator_System_const_iterator_t x, ppl_const_Grid_Generator_System_const_iterator_t y)

    Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

10.30.1 Detailed Description

Types and functions for iterating on grid generator systems. The types and functions for grid generator systems iterators provide read-only access to the elements of a grid generator system by interfacing *Grid_Generator_System::const_iterator*.

10.30.2 Friends And Related Function Documentation

10.30.2.1 int ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *dst*, ppl_const_Grid_Generator_System_const_iterator_t *src*) `[related]`

Assigns a copy of the const iterator `src` to `dst`.

Definition at line 1802 of file ppl_c_implementation_common.cc.

10.30.2.2 int ppl_delete_Grid_Generator_System_const_iterator (ppl_const_Grid_Generator_System_const_iterator_t *git*) `[related]`

Invalidates the handle `git`: this makes sure the corresponding resources will eventually be released.

Definition at line 1794 of file ppl_c_implementation_common.cc.

10.30.2.3 int ppl_Grid_Generator_System_const_iterator_dereference (ppl_const_Grid_Generator_System_const_iterator_t *git*, ppl_const_Grid_Generator_t ∗ *pg*) `[related]`

Dereference `git` writing a const handle to the resulting grid generator at address `pg`.

Definition at line 1835 of file ppl_c_implementation_common.cc.

10.30.2.4 int ppl_Grid_Generator_System_const_iterator_equal_test (ppl_const_Grid_Generator_System_const_iterator_t *x*, ppl_const_Grid_Generator_System_const_iterator_t *y*) `[related]`

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

Definition at line 1855 of file ppl_c_implementation_common.cc.

10.30.2.5 int ppl_Grid_Generator_System_const_iterator_increment (ppl_Grid_Generator_System_const_iterator_t *git*) `[related]`

Increment `git` so that it "points" to the next grid generator.

Definition at line 1846 of file ppl_c_implementation_common.cc.

10.30.2.6 int ppl_new_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t ∗ *pgit*) `[related]`

Builds a new 'const iterator' and writes a handle to it at address `pgit`.

Definition at line 1776 of file ppl_c_implementation_common.cc.

10.30.2.7 int ppl_new_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t ∗ *pgit*, ppl_const_Grid_Generator_System_const_iterator_t *git*) `[related]`

Builds a const iterator that is a copy of `git`; writes a handle for the newly created const iterator at address `pgit`.

Definition at line 1784 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.31 ppl_Grid_Generator_System_tag Interface Reference

Types and functions for grid generator systems.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Grid_Generator_System (ppl_Grid_Generator_System_t *pgs)
  Builds an empty system of grid generators and writes a handle to it at address `pgs`.
- int ppl_new_Grid_Generator_System_from_Grid_Generator (ppl_Grid_Generator_System_t *pgs, ppl_const_Grid_Generator_t g)
  Builds the singleton grid generator system containing only a copy of generator `g`*; writes a handle for the newly created system at address* `pgs`.
- int ppl_new_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t *pgs, ppl_const_Grid_Generator_System_t gs)
  Builds a grid generator system that is a copy of `gs`*; writes a handle for the newly created system at address* `pgs`.
- int ppl_assign_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t dst, ppl_const_Grid_Generator_System_t src)
  Assigns a copy of the grid generator system `src` *to* `dst`.
- int ppl_delete_Grid_Generator_System (ppl_const_Grid_Generator_System_t gs)
  Invalidates the handle `gs`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Grid Generator System

- int ppl_Grid_Generator_System_space_dimension (ppl_const_Grid_Generator_System_t gs, ppl_dimension_type *m)
  Writes to `m` *the dimension of the vector space enclosing* `gs`.
- int ppl_Grid_Generator_System_empty (ppl_const_Grid_Generator_System_t gs)
  Returns a positive integer if `gs` *contains no generator; returns 0 otherwise.*
- int ppl_Grid_Generator_System_begin (ppl_const_Grid_Generator_System_t gs, ppl_Grid_Generator_System_const_iterator_t git)
  Assigns to `git` *a const iterator "pointing" to the beginning of the grid generator system* `gs`.
- int ppl_Grid_Generator_System_end (ppl_const_Grid_Generator_System_t gs, ppl_Grid_Generator_System_const_iterator_t git)
  Assigns to `git` *a const iterator "pointing" past the end of the grid generator system* `gs`.
- int ppl_Grid_Generator_System_OK (ppl_const_Grid_Generator_System_t gs)
  Returns a positive integer if `gs` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `gs` *is broken. Useful for debugging purposes.*

Functions that May Modify the Grid Generator System

- int ppl_Grid_Generator_System_clear (ppl_Grid_Generator_System_t gs)
  Removes all the generators from the grid generator system gs and sets its space dimension to 0.
- int ppl_Grid_Generator_System_insert_Grid_Generator (ppl_Grid_Generator_System_t gs, ppl_const_Grid_Generator_t g)
  Inserts a copy of the grid generator g into gs; the space dimension is increased, if necessary.

10.31.1 Detailed Description

Types and functions for grid generator systems. The types and functions for grid generator systems provide an interface towards *Grid_Generator_System*.

10.31.2 Friends And Related Function Documentation

10.31.2.1 int ppl_assign_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t *dst*, ppl_const_Grid_Generator_System_t *src*) [related]

Assigns a copy of the grid generator system src to dst.

Definition at line 1724 of file ppl_c_implementation_common.cc.

10.31.2.2 int ppl_delete_Grid_Generator_System (ppl_const_Grid_Generator_System_t *gs*) [related]

Invalidates the handle gs: this makes sure the corresponding resources will eventually be released.

Definition at line 1716 of file ppl_c_implementation_common.cc.

10.31.2.3 int ppl_Grid_Generator_System_begin (ppl_const_Grid_Generator_System_t *gs*, ppl_Grid_Generator_System_const_iterator_t *git*) [related]

Assigns to git a const iterator "pointing" to the beginning of the grid generator system gs.

Definition at line 1813 of file ppl_c_implementation_common.cc.

10.31.2.4 int ppl_Grid_Generator_System_clear (ppl_Grid_Generator_System_t *gs*) [related]

Removes all the generators from the grid generator system gs and sets its space dimension to 0.

Definition at line 1749 of file ppl_c_implementation_common.cc.

10.31.2.5 int ppl_Grid_Generator_System_empty (ppl_const_Grid_Generator_System_t *gs*) [related]

Returns a positive integer if gs contains no generator; returns 0 otherwise.

Definition at line 1742 of file ppl_c_implementation_common.cc.

10.31.2.6 int ppl_Grid_Generator_System_end (ppl_const_Grid_Generator_System_t *gs*, ppl_Grid_Generator_System_const_iterator_t *git*) [related]

Assigns to git a const iterator "pointing" past the end of the grid generator system gs.

Definition at line 1824 of file ppl_c_implementation_common.cc.

10.31.2.7 int ppl_Grid_Generator_System_insert_Grid_Generator (ppl_Grid_Generator_System_t *gs*, ppl_const_Grid_Generator_t *g*) [related]

Inserts a copy of the grid generator g into gs; the space dimension is increased, if necessary.

Definition at line 1757 of file ppl_c_implementation_common.cc.

10.31.2.8 int ppl_Grid_Generator_System_OK (ppl_const_Grid_Generator_System_t *gs*) [related]

Returns a positive integer if gs is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if gs is broken. Useful for debugging purposes.

Definition at line 1767 of file ppl_c_implementation_common.cc.

10.31.2.9 int ppl_Grid_Generator_System_space_dimension (ppl_const_Grid_Generator_System_t *gs*, ppl_dimension_type * *m*) [related]

Writes to m the dimension of the vector space enclosing gs.

Definition at line 1733 of file ppl_c_implementation_common.cc.

10.31.2.10 int ppl_new_Grid_Generator_System (ppl_Grid_Generator_System_t * *pgs*) [related]

Builds an empty system of grid generators and writes a handle to it at address pgs.

Definition at line 1682 of file ppl_c_implementation_common.cc.

10.31.2.11 int ppl_new_Grid_Generator_System_from_Grid_Generator (ppl_Grid_Generator_System_t * *pgs*, ppl_const_Grid_Generator_t *g*) `[related]`

Builds the singleton grid generator system containing only a copy of generator `g`; writes a handle for the newly created system at address `pgs`.

Definition at line 1699 of file ppl_c_implementation_common.cc.

10.31.2.12 int ppl_new_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t * *pgs*, ppl_const_Grid_Generator_System_t *gs*) `[related]`

Builds a grid generator system that is a copy of `gs`; writes a handle for the newly created system at address `pgs`.

Definition at line 1708 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.32 ppl_Grid_Generator_tag Interface Reference

Types and functions for grid generators.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Grid_Generator (ppl_Grid_Generator_t *pg, ppl_const_Linear_Expression_t le, enum ppl_enum_Grid_Generator_Type t, ppl_const_Coefficient_t d)

  Creates a new grid generator of direction `le` *and type* `t`*. If the grid generator to be created is a point or a parameter, the divisor* `d` *is applied to* `le`*. If it is a line,* `d` *is simply disregarded. A handle for the new grid generator is written at address* `pg`*. The space dimension of the new grid generator is equal to the space dimension of* `le`*.*

- int ppl_new_Grid_Generator_zero_dim_point (ppl_Grid_Generator_t *pg)

  Creates the point that is the origin of the zero-dimensional space $\mathbb{R}^0$*. Writes a handle for the new grid generator at address* `pg`*.*

- int ppl_new_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t *pg, ppl_const_Grid_Generator_t g)

  Builds a grid generator that is a copy of `g`*; writes a handle for the newly created grid generator at address* `pg`*.*

- int ppl_assign_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t dst, ppl_const_Grid_Generator_t src)

Assigns a copy of the grid generator `src` *to* `dst`*.*

- int ppl_delete_Grid_Generator (ppl_const_Grid_Generator_t g)

  Invalidates the handle `g`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Grid Generator

- int ppl_Grid_Generator_space_dimension (ppl_const_Grid_Generator_t g, ppl_dimension_type *m)

  Writes to `m` *the space dimension of* `g`*.*

- int ppl_Grid_Generator_type (ppl_const_Grid_Generator_t g)

  Returns the type of grid generator `g`*.*

- int ppl_Grid_Generator_coefficient (ppl_const_Grid_Generator_t g, ppl_dimension_type var, ppl_Coefficient_t n)

  Copies into `n` *the coefficient of variable* `var` *in grid generator* `g`*.*

- int ppl_Grid_Generator_divisor (ppl_const_Grid_Generator_t g, ppl_Coefficient_t n)

  If `g` *is a point or a parameter assigns its divisor to* `n`*.*

- int ppl_Grid_Generator_OK (ppl_const_Grid_Generator_t g)

  Returns a positive integer if `g` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `g` *is broken. Useful for debugging purposes.*

10.32.1 Detailed Description

Types and functions for grid generators. The types and functions for grid generators provide an interface towards *Grid_Generator*.

10.32.2 Friends And Related Function Documentation

10.32.2.1 int ppl_assign_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t *dst*, ppl_const_Grid_Generator_t *src*) `[related]`

Assigns a copy of the grid generator `src` to `dst`.

Definition at line 1609 of file ppl_c_implementation_common.cc.

10.32.2.2 int ppl_delete_Grid_Generator (ppl_const_Grid_Generator_t *g*) `[related]`

Invalidates the handle `g`: this makes sure the corresponding resources will eventually be released.

Definition at line 1601 of file ppl_c_implementation_common.cc.

10.32.2.3 int ppl_Grid_Generator_coefficient (ppl_const_Grid_Generator_t *g*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Copies into `n` the coefficient of variable `var` in grid generator `g`.

Definition at line 1642 of file ppl_c_implementation_common.cc.

10.32.2.4 int ppl_Grid_Generator_divisor (ppl_const_Grid_Generator_t *g*, ppl_Coefficient_t *n*) [related]

If `g` is a point or a parameter assigns its divisor to `n`.

Definition at line 1653 of file ppl_c_implementation_common.cc.

10.32.2.5 int ppl_Grid_Generator_OK (ppl_const_Grid_Generator_t *g*) [related]

Returns a positive integer if `g` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `g` is broken. Useful for debugging purposes.

Definition at line 1663 of file ppl_c_implementation_common.cc.

10.32.2.6 int ppl_Grid_Generator_space_dimension (ppl_const_Grid_Generator_t *g*, ppl_dimension_type * *m*) [related]

Writes to `m` the space dimension of `g`.

Definition at line 1619 of file ppl_c_implementation_common.cc.

10.32.2.7 int ppl_Grid_Generator_type (ppl_const_Grid_Generator_t *g*) [related]

Returns the type of grid generator `g`.

Definition at line 1627 of file ppl_c_implementation_common.cc.

10.32.2.8 int ppl_new_Grid_Generator (ppl_Grid_Generator_t * *pg*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Grid_Generator_Type *t*, ppl_const_Coefficient_t *d*) [related]

Creates a new grid generator of direction `le` and type `t`. If the grid generator to be created is a point or a parameter, the divisor `d` is applied to `le`. If it is a line, `d` is simply disregarded. A handle for the new grid generator is written at address `pg`. The space dimension of the new grid generator is equal to the space dimension of `le`.

Definition at line 1558 of file ppl_c_implementation_common.cc.

10.32.2.9 int ppl_new_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t * *pg*, ppl_const_Grid_Generator_t *g*) [related]

Builds a grid generator that is a copy of g; writes a handle for the newly created grid generator at address pg.

Definition at line 1592 of file ppl_c_implementation_common.cc.

10.32.2.10 int ppl_new_Grid_Generator_zero_dim_point (ppl_Grid_Generator_t * *pg*) [related]

Creates the point that is the origin of the zero-dimensional space $\mathbb{R}^0$. Writes a handle for the new grid generator at address pg.

Definition at line 1585 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.33 ppl_Grid_tag Interface Reference

Types and functions for ppl_Grid_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Grid (ppl_const_Grid_t ph)
- int ppl_new_Grid_from_space_dimension (ppl_Grid_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Grid_from_Int8_Box (ppl_Grid_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Grid_from_Int16_Box (ppl_Grid_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Grid_from_Int32_Box (ppl_Grid_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Grid_from_Int64_Box (ppl_Grid_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Grid_from_Uint8_Box (ppl_Grid_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Grid_from_Uint16_Box (ppl_Grid_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Grid_from_Uint32_Box (ppl_Grid_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Grid_from_Uint64_Box (ppl_Grid_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Grid_from_Z_Box (ppl_Grid_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Grid_from_Rational_Box (ppl_Grid_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Grid_from_BD_Shape_int8_t (ppl_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Grid_from_BD_Shape_int16_t (ppl_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Grid_from_BD_Shape_int32_t (ppl_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Grid_from_BD_Shape_int64_t (ppl_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Grid_from_BD_Shape_mpz_class (ppl_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph)

- int ppl_new_Grid_from_BD_Shape_mpq_class (ppl_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_int8_t (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_int16_t (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_int32_t (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_int64_t (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_mpz_class (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_mpq_class (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Grid_from_C_Polyhedron (ppl_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Grid_from_NNC_Polyhedron (ppl_Grid_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Grid_from_Grid (ppl_Grid_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Grid_from_Float_Box (ppl_Grid_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Grid_from_BD_Shape_float (ppl_Grid_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_float (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Grid_from_Double_Box (ppl_Grid_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Grid_from_BD_Shape_double (ppl_Grid_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_double (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Grid_from_Long_Double_Box (ppl_Grid_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Grid_from_BD_Shape_long_double (ppl_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Grid_from_Octagonal_Shape_long_double (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Grid_from_Int8_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Grid_from_Int16_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Grid_from_Int32_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Grid_from_Int64_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Grid_from_Uint8_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Grid_from_Uint16_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Grid_from_Uint32_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Grid_from_Uint64_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Grid_from_Z_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Grid_from_Rational_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)

- int ppl_new_Grid_from_BD_Shape_int16_t_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_int32_t_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_int64_t_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_mpz_class_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_mpq_class_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_int8_t_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_int16_t_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_int32_t_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_int64_t_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Grid_from_C_Polyhedron_with_complexity (ppl_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Grid_from_NNC_Polyhedron_with_complexity (ppl_Grid_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Grid_from_Grid_with_complexity (ppl_Grid_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Grid_from_Float_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_float_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_float_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Grid_from_Double_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_double_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_double_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Grid_from_Long_Double_Box_with_complexity (ppl_Grid_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Grid_from_BD_Shape_long_double_with_complexity (ppl_Grid_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Grid_from_Octagonal_Shape_long_double_with_complexity (ppl_Grid_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Grid_from_Constraint_System (ppl_Grid_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Grid_from_Congruence_System (ppl_Grid_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Grid_from_Grid_Generator_System (ppl_Grid_t *pph, ppl_const_Grid_Generator_System_t cs)
- int ppl_Grid_space_dimension (ppl_const_Grid_t ph, ppl_dimension_type *m)

- int ppl_Grid_affine_dimension (ppl_const_Grid_t ph, ppl_dimension_type *m)
- int ppl_Grid_relation_with_Constraint (ppl_const_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Grid_relation_with_Generator (ppl_const_Grid_t ph, ppl_const_Generator_t c)
- int ppl_Grid_relation_with_Congruence (ppl_const_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Grid_relation_with_Grid_Generator (ppl_const_Grid_t ph, ppl_const_Grid_Generator_t c)
- int ppl_Grid_get_constraints (ppl_const_Grid_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Grid_get_congruences (ppl_const_Grid_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Grid_get_grid_generators (ppl_const_Grid_t ph, ppl_const_Grid_Generator_System_t *pcs)
- int ppl_Grid_get_minimized_constraints (ppl_const_Grid_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Grid_get_minimized_congruences (ppl_const_Grid_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Grid_get_minimized_grid_generators (ppl_const_Grid_t ph, ppl_const_Grid_Generator_System_t *pcs)
- int ppl_Grid_is_empty (ppl_const_Grid_t ph)
- int ppl_Grid_is_universe (ppl_const_Grid_t ph)
- int ppl_Grid_is_bounded (ppl_const_Grid_t ph)
- int ppl_Grid_contains_integer_point (ppl_const_Grid_t ph)
- int ppl_Grid_is_topologically_closed (ppl_const_Grid_t ph)
- int ppl_Grid_is_discrete (ppl_const_Grid_t ph)
- int ppl_Grid_topological_closure_assign (ppl_Grid_t ph)
- int ppl_Grid_bounds_from_above (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Grid_bounds_from_below (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Grid_maximize (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Grid_minimize (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Grid_maximize_with_point (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Grid_minimize_with_point (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Grid_frequency (ppl_const_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Grid_contains_Grid (ppl_const_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_strictly_contains_Grid (ppl_const_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_is_disjoint_from_Grid (ppl_const_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_equals_Grid (ppl_const_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_OK (ppl_const_Grid_t ph)
- int ppl_Grid_add_constraint (ppl_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Grid_add_congruence (ppl_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Grid_add_grid_generator (ppl_Grid_t ph, ppl_const_Grid_Generator_t c)
- int ppl_Grid_add_constraints (ppl_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Grid_add_congruences (ppl_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Grid_add_grid_generators (ppl_Grid_t ph, ppl_const_Grid_Generator_System_t cs)
- int ppl_Grid_refine_with_constraint (ppl_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Grid_refine_with_congruence (ppl_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Grid_refine_with_constraints (ppl_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Grid_refine_with_congruences (ppl_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Grid_intersection_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_upper_bound_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_difference_assign (ppl_Grid_t x, ppl_const_Grid_t y)

- int ppl_Grid_concatenate_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_time_elapse_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_upper_bound_assign_if_exact (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_simplify_using_context_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_constrains (ppl_Grid_t ph, ppl_dimension_type var)
- int ppl_Grid_unconstrain_space_dimension (ppl_Grid_t ph, ppl_dimension_type var)
- int ppl_Grid_unconstrain_space_dimensions (ppl_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Grid_affine_image (ppl_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Grid_affine_preimage (ppl_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Grid_bounded_affine_image (ppl_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Grid_bounded_affine_preimage (ppl_Grid_t ph, ppl_dimension_type var, ppl_const_-Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Grid_generalized_affine_image (ppl_Grid_t ph, ppl_dimension_type var, enum ppl_enum_-Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Grid_generalized_affine_preimage (ppl_Grid_t ph, ppl_dimension_type var, enum ppl_-enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Grid_generalized_affine_image_lhs_rhs (ppl_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Grid_generalized_affine_preimage_lhs_rhs (ppl_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Grid_generalized_affine_image_with_congruence (ppl_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d, ppl_const_Coefficient_t m)
- int ppl_Grid_generalized_affine_preimage_with_congruence (ppl_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d, ppl_const_Coefficient_t m)
- int ppl_Grid_generalized_affine_image_lhs_rhs_with_congruence (ppl_Grid_t ph, ppl_const_-Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs, ppl_const_Coefficient_t m)
- int ppl_Grid_generalized_affine_preimage_lhs_rhs_with_congruence (ppl_Grid_t ph, ppl_const_-Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs, ppl_const_Coefficient_t m)
- int ppl_Grid_add_space_dimensions_and_embed (ppl_Grid_t ph, ppl_dimension_type d)
- int ppl_Grid_add_space_dimensions_and_project (ppl_Grid_t ph, ppl_dimension_type d)
- int ppl_Grid_remove_space_dimensions (ppl_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Grid_remove_higher_space_dimensions (ppl_Grid_t ph, ppl_dimension_type d)
- int ppl_Grid_expand_space_dimension (ppl_Grid_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Grid_fold_space_dimensions (ppl_Grid_t ph, ppl_dimension_type ds[ ], size_t n, ppl_-dimension_type d)
- int ppl_Grid_map_space_dimensions (ppl_Grid_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Grid_drop_some_non_integer_points (ppl_Grid_t ph, int complexity)
- int ppl_Grid_drop_some_non_integer_points_2 (ppl_Grid_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Grid_external_memory_in_bytes (ppl_const_Grid_t ps, size_t ∗sz)
- int ppl_Grid_total_memory_in_bytes (ppl_const_Grid_t ps, size_t ∗sz)
- int ppl_Grid_congruence_widening_assign_with_tokens (ppl_Grid_t x, ppl_const_Grid_t y, unsigned ∗tp)

- int ppl_Grid_generator_widening_assign_with_tokens (ppl_Grid_t x, ppl_const_Grid_t y, unsigned *tp)
- int ppl_Grid_congruence_widening_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_generator_widening_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_widening_assign_with_tokens (ppl_Grid_t x, ppl_const_Grid_t y, unsigned *tp)
- int ppl_Grid_widening_assign (ppl_Grid_t x, ppl_const_Grid_t y)
- int ppl_Grid_limited_congruence_extrapolation_assign_with_tokens (ppl_Grid_t x, ppl_const_Grid_t y, ppl_const_Congruence_System_t cs, unsigned *tp)
- int ppl_Grid_limited_generator_extrapolation_assign_with_tokens (ppl_Grid_t x, ppl_const_Grid_t y, ppl_const_Congruence_System_t cs, unsigned *tp)
- int ppl_Grid_limited_congruence_extrapolation_assign (ppl_Grid_t x, ppl_const_Grid_t y, ppl_const_Congruence_System_t cs)
- int ppl_Grid_limited_generator_extrapolation_assign (ppl_Grid_t x, ppl_const_Grid_t y, ppl_const_Congruence_System_t cs)
- int ppl_Grid_approximate_partition (ppl_const_Grid_t x, ppl_const_Grid_t y, ppl_Grid_t *p_inters, ppl_Pointset_Powerset_Grid_t *p_rest, int *p_finite)
- int ppl_Grid_wrap_assign (ppl_Grid_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Grid_recycle_Constraint_System (ppl_Grid_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Grid_recycle_Congruence_System (ppl_Grid_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Grid_recycle_Grid_Generator_System (ppl_Grid_t *pph, ppl_Grid_Generator_System_t cs)
- int ppl_assign_Grid_from_Grid (ppl_Grid_t dst, ppl_const_Grid_t src)
- int ppl_Grid_add_recycled_constraints (ppl_Grid_t ph, ppl_Constraint_System_t cs)
- int ppl_Grid_add_recycled_congruences (ppl_Grid_t ph, ppl_Congruence_System_t cs)
- int ppl_Grid_add_recycled_grid_generators (ppl_Grid_t ph, ppl_Grid_Generator_System_t cs)
- int ppl_termination_test_MS_Grid (ppl_const_Grid_t pset)
- int ppl_termination_test_PR_Grid (ppl_const_Grid_t pset)
- int ppl_one_affine_ranking_function_MS_Grid (ppl_const_Grid_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Grid (ppl_const_Grid_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Grid (ppl_const_Grid_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Grid (ppl_const_Grid_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after)
- int ppl_termination_test_PR_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after)
- int ppl_one_affine_ranking_function_MS_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Grid_2 (ppl_const_Grid_t pset_before, ppl_const_Grid_t pset_after, ppl_Polyhedron_t ph)

10.33.1 Detailed Description

Types and functions for ppl_Grid_tag.

10.33.2 Friends And Related Function Documentation

10.33.2.1 int ppl_all_affine_ranking_functions_MS_Grid (ppl_const_Grid_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.33.2.2 int ppl_all_affine_ranking_functions_MS_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.33.2.3 int ppl_all_affine_ranking_functions_PR_Grid (ppl_const_Grid_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.33.2.4 int ppl_all_affine_ranking_functions_PR_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.33.2.5 int ppl_assign_Grid_from_Grid (ppl_Grid_t *dst*, ppl_const_Grid_t *src*) [related]

10.33.2.6 int ppl_delete_Grid (ppl_const_Grid_t *ph*) [related]

10.33.2.7 int ppl_Grid_add_congruence (ppl_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.33.2.8 int ppl_Grid_add_congruences (ppl_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.33.2.9 int ppl_Grid_add_constraint (ppl_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.33.2.10 int ppl_Grid_add_constraints (ppl_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.33.2.11 int ppl_Grid_add_grid_generator (ppl_Grid_t *ph*, ppl_const_Grid_Generator_t *c*) [related]

10.33.2.12 int ppl_Grid_add_grid_generators (ppl_Grid_t *ph*, ppl_const_Grid_Generator_System_t *cs*) [related]

10.33.2.13 int ppl_Grid_add_recycled_congruences (ppl_Grid_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.33.2.14 int ppl_Grid_add_recycled_constraints (ppl_Grid_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.33.2.15 int ppl_Grid_add_recycled_grid_generators (ppl_Grid_t *ph*, ppl_Grid_Generator_System_t *cs*) [related]

10.33.2.16 int ppl_Grid_add_space_dimensions_and_embed (ppl_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.33.2.17 int ppl_Grid_add_space_dimensions_and_project (ppl_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.33.2.18 int ppl_Grid_affine_dimension (ppl_const_Grid_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.33.2.19 int ppl_Grid_affine_image (ppl_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.33.2.20 int ppl_Grid_affine_preimage (ppl_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.33.2.21 int ppl_Grid_approximate_partition (ppl_const_Grid_t *x*, ppl_const_Grid_t *y*, ppl_Grid_t * *p_inters*, ppl_Pointset_Powerset_Grid_t * *p_rest*, int * *p_finite*) [related]

10.33.2.22 int ppl_Grid_bounded_affine_image (ppl_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.33.2.23 int ppl_Grid_bounded_affine_preimage (ppl_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.33.2.24 int ppl_Grid_bounds_from_above (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.33.2.25 int ppl_Grid_bounds_from_below (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.33.2.26 int ppl_Grid_concatenate_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.27 int ppl_Grid_congruence_widening_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.28 int ppl_Grid_congruence_widening_assign_with_tokens (ppl_Grid_t *x*, ppl_const_Grid_t *y*, unsigned * *tp*) [related]

10.33.2.29 int ppl_Grid_constrains (ppl_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.33.2.30 int ppl_Grid_contains_Grid (ppl_const_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.31 int ppl_Grid_contains_integer_point (ppl_const_Grid_t *ph*) [related]

10.33.2.32 int ppl_Grid_difference_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.33 int ppl_Grid_drop_some_non_integer_points (ppl_Grid_t *ph*, int *complexity*) [related]

10.33.2.34 int ppl_Grid_drop_some_non_integer_points_2 (ppl_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.33.2.35 int ppl_Grid_equals_Grid (ppl_const_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.36 int ppl_Grid_expand_space_dimension (ppl_Grid_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.33.2.37 int ppl_Grid_external_memory_in_bytes (ppl_const_Grid_t *ps*, size_t * *sz*) [related]

10.33.2.38 int ppl_Grid_fold_space_dimensions (ppl_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.33.2.39 int ppl_Grid_frequency (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.33.2.40 int ppl_Grid_generalized_affine_image (ppl_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.33.2.41 int ppl_Grid_generalized_affine_image_lhs_rhs (ppl_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.33.2.42 int ppl_Grid_generalized_affine_image_lhs_rhs_with_congruence (ppl_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*, ppl_const_Coefficient_t *m*) [related]

10.33.2.43 int ppl_Grid_generalized_affine_image_with_congruence (ppl_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*, ppl_const_Coefficient_t *m*) [related]

10.33.2.44 int ppl_Grid_generalized_affine_preimage (ppl_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.33.2.45 int ppl_Grid_generalized_affine_preimage_lhs_rhs (ppl_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.33.2.46 int ppl_Grid_generalized_affine_preimage_lhs_rhs_with_congruence (ppl_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*, ppl_const_Coefficient_t *m*) [related]

10.33.2.47 int ppl_Grid_generalized_affine_preimage_with_congruence (ppl_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*, ppl_const_Coefficient_t *m*) [related]

10.33.2.48 int ppl_Grid_generator_widening_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.49 int ppl_Grid_generator_widening_assign_with_tokens (ppl_Grid_t *x*, ppl_const_Grid_t *y*, unsigned * *tp*) [related]

10.33.2.50 int ppl_Grid_get_congruences (ppl_const_Grid_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.33.2.51 int ppl_Grid_get_constraints (ppl_const_Grid_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.33.2.52 int ppl_Grid_get_grid_generators (ppl_const_Grid_t *ph*, ppl_const_Grid_Generator_System_t * *pcs*) [related]

10.33.2.53 int ppl_Grid_get_minimized_congruences (ppl_const_Grid_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.33.2.54 int ppl_Grid_get_minimized_constraints (ppl_const_Grid_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.33.2.55 int ppl_Grid_get_minimized_grid_generators (ppl_const_Grid_t *ph*, ppl_const_Grid_Generator_System_t * *pcs*) [related]

10.33.2.56 int ppl_Grid_intersection_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) `[related]`

10.33.2.57 int ppl_Grid_is_bounded (ppl_const_Grid_t *ph*) `[related]`

10.33.2.58 int ppl_Grid_is_discrete (ppl_const_Grid_t *ph*) `[related]`

10.33.2.59 int ppl_Grid_is_disjoint_from_Grid (ppl_const_Grid_t *x*, ppl_const_Grid_t *y*) `[related]`

10.33.2.60 int ppl_Grid_is_empty (ppl_const_Grid_t *ph*) `[related]`

10.33.2.61 int ppl_Grid_is_topologically_closed (ppl_const_Grid_t *ph*) `[related]`

10.33.2.62 int ppl_Grid_is_universe (ppl_const_Grid_t *ph*) `[related]`

10.33.2.63 int ppl_Grid_limited_congruence_extrapolation_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*, ppl_const_Congruence_System_t *cs*) `[related]`

10.33.2.64 int ppl_Grid_limited_congruence_extrapolation_assign_with_tokens (ppl_Grid_t *x*, ppl_const_Grid_t *y*, ppl_const_Congruence_System_t *cs*, unsigned ∗ *tp*) `[related]`

10.33.2.65 int ppl_Grid_limited_generator_extrapolation_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*, ppl_const_Congruence_System_t *cs*) `[related]`

10.33.2.66 int ppl_Grid_limited_generator_extrapolation_assign_with_tokens (ppl_Grid_t *x*, ppl_const_Grid_t *y*, ppl_const_Congruence_System_t *cs*, unsigned ∗ *tp*) `[related]`

10.33.2.67 int ppl_Grid_map_space_dimensions (ppl_Grid_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) `[related]`

10.33.2.68 int ppl_Grid_maximize (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.33.2.69 int ppl_Grid_maximize_with_point (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.33.2.70 int ppl_Grid_minimize (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.33.2.71 int ppl_Grid_minimize_with_point (ppl_const_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.33.2.72 int ppl_Grid_OK (ppl_const_Grid_t *ph*) `[related]`

10.33.2.73 int ppl_Grid_refine_with_congruence (ppl_Grid_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.33.2.74 int ppl_Grid_refine_with_congruences (ppl_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.33.2.75 int ppl_Grid_refine_with_constraint (ppl_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.33.2.76 int ppl_Grid_refine_with_constraints (ppl_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.33.2.77 int ppl_Grid_relation_with_Congruence (ppl_const_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.33.2.78 int ppl_Grid_relation_with_Constraint (ppl_const_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.33.2.79 int ppl_Grid_relation_with_Generator (ppl_const_Grid_t *ph*, ppl_const_Generator_t *c*) [related]

10.33.2.80 int ppl_Grid_relation_with_Grid_Generator (ppl_const_Grid_t *ph*, ppl_const_Grid_Generator_t *c*) [related]

10.33.2.81 int ppl_Grid_remove_higher_space_dimensions (ppl_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.33.2.82 int ppl_Grid_remove_space_dimensions (ppl_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.33.2.83 int ppl_Grid_simplify_using_context_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.84 int ppl_Grid_space_dimension (ppl_const_Grid_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.33.2.85 int ppl_Grid_strictly_contains_Grid (ppl_const_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.86 int ppl_Grid_time_elapse_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.87 int ppl_Grid_topological_closure_assign (ppl_Grid_t *ph*) [related]

10.33.2.88 int ppl_Grid_total_memory_in_bytes (ppl_const_Grid_t *ps*, size_t ∗ *sz*) [related]

10.33.2.89 int ppl_Grid_unconstrain_space_dimension (ppl_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.33.2.90 int ppl_Grid_unconstrain_space_dimensions (ppl_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.33.2.91 int ppl_Grid_upper_bound_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.92 int ppl_Grid_upper_bound_assign_if_exact (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.93 int ppl_Grid_widening_assign (ppl_Grid_t *x*, ppl_const_Grid_t *y*) [related]

10.33.2.94 int ppl_Grid_widening_assign_with_tokens (ppl_Grid_t *x*, ppl_const_Grid_t *y*, unsigned ∗ *tp*) `[related]`

10.33.2.95 int ppl_Grid_wrap_assign (ppl_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_-Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) `[related]`

10.33.2.96 int ppl_new_Grid_from_BD_Shape_double (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.33.2.97 int ppl_new_Grid_from_BD_Shape_double_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) `[related]`

10.33.2.98 int ppl_new_Grid_from_BD_Shape_float (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) `[related]`

10.33.2.99 int ppl_new_Grid_from_BD_Shape_float_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) `[related]`

10.33.2.100 int ppl_new_Grid_from_BD_Shape_int16_t (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) `[related]`

10.33.2.101 int ppl_new_Grid_from_BD_Shape_int16_t_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) `[related]`

10.33.2.102 int ppl_new_Grid_from_BD_Shape_int32_t (ppl_Grid_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) `[related]`

10.33.2.103 int ppl_new_Grid_from_BD_Shape_int32_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.33.2.104 int ppl_new_Grid_from_BD_Shape_int64_t (ppl_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.33.2.105 int ppl_new_Grid_from_BD_Shape_int64_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.33.2.106 int ppl_new_Grid_from_BD_Shape_int8_t (ppl_Grid_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.33.2.107 int ppl_new_Grid_from_BD_Shape_int8_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.33.2.108 int ppl_new_Grid_from_BD_Shape_long_double (ppl_Grid_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.33.2.109 int ppl_new_Grid_from_BD_Shape_long_double_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.33.2.110 int ppl_new_Grid_from_BD_Shape_mpq_class (ppl_Grid_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.33.2.111 int ppl_new_Grid_from_BD_Shape_mpq_class_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.33.2.112 int ppl_new_Grid_from_BD_Shape_mpz_class (ppl_Grid_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.33.2.113 int ppl_new_Grid_from_BD_Shape_mpz_class_with_complexity (ppl_Grid_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.33.2.114 int ppl_new_Grid_from_C_Polyhedron (ppl_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.33.2.115 int ppl_new_Grid_from_C_Polyhedron_with_complexity (ppl_Grid_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.33.2.116 int ppl_new_Grid_from_Congruence_System (ppl_Grid_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.33.2.117 int ppl_new_Grid_from_Constraint_System (ppl_Grid_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.33.2.118 int ppl_new_Grid_from_Double_Box (ppl_Grid_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.33.2.119 int ppl_new_Grid_from_Double_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.33.2.120 int ppl_new_Grid_from_Float_Box (ppl_Grid_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.33.2.121 int ppl_new_Grid_from_Float_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.33.2.122 int ppl_new_Grid_from_Grid (ppl_Grid_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.33.2.123 int ppl_new_Grid_from_Grid_Generator_System (ppl_Grid_t * *pph*, ppl_const_Grid_Generator_System_t *cs*) [related]

10.33.2.124 int ppl_new_Grid_from_Grid_with_complexity (ppl_Grid_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.33.2.125 int ppl_new_Grid_from_Int16_Box (ppl_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.33.2.126 int ppl_new_Grid_from_Int16_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.33.2.127 int ppl_new_Grid_from_Int32_Box (ppl_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.33.2.128 int ppl_new_Grid_from_Int32_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.33.2.129 int ppl_new_Grid_from_Int64_Box (ppl_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.33.2.130 int ppl_new_Grid_from_Int64_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.33.2.131 int ppl_new_Grid_from_Int8_Box (ppl_Grid_t ∗ *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.33.2.132 int ppl_new_Grid_from_Int8_Box_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.33.2.133 int ppl_new_Grid_from_Long_Double_Box (ppl_Grid_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.33.2.134 int ppl_new_Grid_from_Long_Double_Box_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.33.2.135 int ppl_new_Grid_from_NNC_Polyhedron (ppl_Grid_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.33.2.136 int ppl_new_Grid_from_NNC_Polyhedron_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.33.2.137 int ppl_new_Grid_from_Octagonal_Shape_double (ppl_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.33.2.138 int ppl_new_Grid_from_Octagonal_Shape_double_with_complexity (ppl_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.33.2.139 int ppl_new_Grid_from_Octagonal_Shape_float (ppl_Grid_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.33.2.140 int ppl_new_Grid_from_Octagonal_Shape_float_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.33.2.141 int ppl_new_Grid_from_Octagonal_Shape_int16_t (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.33.2.142 int ppl_new_Grid_from_Octagonal_Shape_int16_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.33.2.143 int ppl_new_Grid_from_Octagonal_Shape_int32_t (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.33.2.144 int ppl_new_Grid_from_Octagonal_Shape_int32_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.33.2.145 int ppl_new_Grid_from_Octagonal_Shape_int64_t (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.33.2.146 int ppl_new_Grid_from_Octagonal_Shape_int64_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.33.2.147 int ppl_new_Grid_from_Octagonal_Shape_int8_t (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.33.2.148 int ppl_new_Grid_from_Octagonal_Shape_int8_t_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.33.2.149 int ppl_new_Grid_from_Octagonal_Shape_long_double (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.33.2.150 int ppl_new_Grid_from_Octagonal_Shape_long_double_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.33.2.151 int ppl_new_Grid_from_Octagonal_Shape_mpq_class (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.33.2.152 int ppl_new_Grid_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.33.2.153 int ppl_new_Grid_from_Octagonal_Shape_mpz_class (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.33.2.154 int ppl_new_Grid_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Grid_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.33.2.155 int ppl_new_Grid_from_Rational_Box (ppl_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.33.2.156 int ppl_new_Grid_from_Rational_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.33.2.157 int ppl_new_Grid_from_space_dimension (ppl_Grid_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.33.2.158 int ppl_new_Grid_from_Uint16_Box (ppl_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*) `[related]`

10.33.2.159 int ppl_new_Grid_from_Uint16_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) `[related]`

10.33.2.160 int ppl_new_Grid_from_Uint32_Box (ppl_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*) `[related]`

10.33.2.161 int ppl_new_Grid_from_Uint32_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) `[related]`

10.33.2.162 int ppl_new_Grid_from_Uint64_Box (ppl_Grid_t * *pph*, ppl_const_Uint64_Box_t *ph*) `[related]`

10.33.2.163 int ppl_new_Grid_from_Uint64_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) `[related]`

10.33.2.164 int ppl_new_Grid_from_Uint8_Box (ppl_Grid_t * *pph*, ppl_const_Uint8_Box_t *ph*) `[related]`

10.33.2.165 int ppl_new_Grid_from_Uint8_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) `[related]`

10.33.2.166 int ppl_new_Grid_from_Z_Box (ppl_Grid_t * *pph*, ppl_const_Z_Box_t *ph*) `[related]`

10.33.2.167 int ppl_new_Grid_from_Z_Box_with_complexity (ppl_Grid_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.33.2.168 int ppl_new_Grid_recycle_Congruence_System (ppl_Grid_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.33.2.169 int ppl_new_Grid_recycle_Constraint_System (ppl_Grid_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.33.2.170 int ppl_new_Grid_recycle_Grid_Generator_System (ppl_Grid_t * *pph*, ppl_Grid_Generator_System_t *cs*) [related]

10.33.2.171 int ppl_one_affine_ranking_function_MS_Grid (ppl_const_Grid_t *pset*, ppl_Generator_t *point*) [related]

10.33.2.172 int ppl_one_affine_ranking_function_MS_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*, ppl_Generator_t *point*) [related]

10.33.2.173 int ppl_one_affine_ranking_function_PR_Grid (ppl_const_Grid_t *pset*, ppl_Generator_t *point*) [related]

10.33.2.174 int ppl_one_affine_ranking_function_PR_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*, ppl_Generator_t *point*) [related]

10.33.2.175 int ppl_termination_test_MS_Grid (ppl_const_Grid_t *pset*) [related]

10.33.2.176 int ppl_termination_test_MS_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*) [related]

10.33.2.177 int ppl_termination_test_PR_Grid (ppl_const_Grid_t *pset*) [related]

10.33.2.178 int ppl_termination_test_PR_Grid_2 (ppl_const_Grid_t *pset_before*, ppl_const_Grid_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.34 ppl_Int16_Box_tag Interface Reference

Types and functions for ppl_Int16_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Int16_Box (ppl_const_Int16_Box_t ph)
- int ppl_new_Int16_Box_from_space_dimension (ppl_Int16_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Int16_Box_from_Int8_Box (ppl_Int16_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Int16_Box_from_Int16_Box (ppl_Int16_Box_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Int16_Box_from_Int32_Box (ppl_Int16_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Int16_Box_from_Int64_Box (ppl_Int16_Box_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Int16_Box_from_Uint8_Box (ppl_Int16_Box_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Int16_Box_from_Uint16_Box (ppl_Int16_Box_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Int16_Box_from_Uint32_Box (ppl_Int16_Box_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Int16_Box_from_Uint64_Box (ppl_Int16_Box_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Int16_Box_from_Z_Box (ppl_Int16_Box_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Int16_Box_from_Rational_Box (ppl_Int16_Box_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_int8_t (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_int16_t (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_int32_t (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_int64_t (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_mpz_class (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_mpq_class (ppl_Int16_Box_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int8_t (ppl_Int16_Box_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)

- int ppl_new_Int16_Box_from_Octagonal_Shape_int16_t (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int32_t (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int64_t (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_mpz_class (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_mpq_class (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Int16_Box_from_C_Polyhedron (ppl_Int16_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int16_Box_from_NNC_Polyhedron (ppl_Int16_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int16_Box_from_Grid (ppl_Int16_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Int16_Box_from_Float_Box (ppl_Int16_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_float (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_float (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Int16_Box_from_Double_Box (ppl_Int16_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_double (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_double (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Int16_Box_from_Long_Double_Box (ppl_Int16_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Int16_Box_from_BD_Shape_long_double (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Int16_Box_from_Octagonal_Shape_long_double (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Int16_Box_from_Int8_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Int16_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Int32_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Int64_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Uint8_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Uint16_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Uint32_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Uint64_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Z_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_Rational_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)

- int ppl_new_Int16_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int16_Box_from_C_Polyhedron_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int16_Box_from_NNC_Polyhedron_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int16_Box_from_Grid_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Int16_Box_from_Float_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_float_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Int16_Box_from_Double_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_double_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Int16_Box_from_Long_Double_Box_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Int16_Box_from_BD_Shape_long_double_with_complexity (ppl_Int16_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Int16_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int16_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Int16_Box_from_Constraint_System (ppl_Int16_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Int16_Box_from_Congruence_System (ppl_Int16_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Int16_Box_from_Generator_System (ppl_Int16_Box_t *pph, ppl_const_Generator_System_t cs)

- int ppl_Int16_Box_space_dimension (ppl_const_Int16_Box_t ph, ppl_dimension_type *m)
- int ppl_Int16_Box_affine_dimension (ppl_const_Int16_Box_t ph, ppl_dimension_type *m)
- int ppl_Int16_Box_relation_with_Constraint (ppl_const_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int16_Box_relation_with_Generator (ppl_const_Int16_Box_t ph, ppl_const_Generator_t c)
- int ppl_Int16_Box_relation_with_Congruence (ppl_const_Int16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int16_Box_get_constraints (ppl_const_Int16_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int16_Box_get_congruences (ppl_const_Int16_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int16_Box_get_minimized_constraints (ppl_const_Int16_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int16_Box_get_minimized_congruences (ppl_const_Int16_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int16_Box_is_empty (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_is_universe (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_is_bounded (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_contains_integer_point (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_is_topologically_closed (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_is_discrete (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_topological_closure_assign (ppl_Int16_Box_t ph)
- int ppl_Int16_Box_bounds_from_above (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int16_Box_bounds_from_below (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int16_Box_maximize (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int16_Box_minimize (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int16_Box_maximize_with_point (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int16_Box_minimize_with_point (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int16_Box_frequency (ppl_const_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Int16_Box_contains_Int16_Box (ppl_const_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_strictly_contains_Int16_Box (ppl_const_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_is_disjoint_from_Int16_Box (ppl_const_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_equals_Int16_Box (ppl_const_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_OK (ppl_const_Int16_Box_t ph)
- int ppl_Int16_Box_add_constraint (ppl_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int16_Box_add_congruence (ppl_Int16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int16_Box_add_constraints (ppl_Int16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int16_Box_add_congruences (ppl_Int16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int16_Box_refine_with_constraint (ppl_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int16_Box_refine_with_congruence (ppl_Int16_Box_t ph, ppl_const_Congruence_t c)

- int ppl_Int16_Box_refine_with_constraints (ppl_Int16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int16_Box_refine_with_congruences (ppl_Int16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int16_Box_intersection_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_upper_bound_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_difference_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_concatenate_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_time_elapse_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_upper_bound_assign_if_exact (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_simplify_using_context_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_constrains (ppl_Int16_Box_t ph, ppl_dimension_type var)
- int ppl_Int16_Box_unconstrain_space_dimension (ppl_Int16_Box_t ph, ppl_dimension_type var)
- int ppl_Int16_Box_unconstrain_space_dimensions (ppl_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int16_Box_affine_image (ppl_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_affine_preimage (ppl_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_bounded_affine_image (ppl_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_bounded_affine_preimage (ppl_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_generalized_affine_image (ppl_Int16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_generalized_affine_preimage (ppl_Int16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int16_Box_generalized_affine_image_lhs_rhs (ppl_Int16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int16_Box_generalized_affine_preimage_lhs_rhs (ppl_Int16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int16_Box_add_space_dimensions_and_embed (ppl_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Int16_Box_add_space_dimensions_and_project (ppl_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Int16_Box_remove_space_dimensions (ppl_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int16_Box_remove_higher_space_dimensions (ppl_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Int16_Box_expand_space_dimension (ppl_Int16_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Int16_Box_fold_space_dimensions (ppl_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Int16_Box_map_space_dimensions (ppl_Int16_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Int16_Box_drop_some_non_integer_points (ppl_Int16_Box_t ph, int complexity)
- int ppl_Int16_Box_drop_some_non_integer_points_2 (ppl_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Int16_Box_external_memory_in_bytes (ppl_const_Int16_Box_t ps, size_t *sz)
- int ppl_Int16_Box_total_memory_in_bytes (ppl_const_Int16_Box_t ps, size_t *sz)
- int ppl_Int16_Box_CC76_widening_assign_with_tokens (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y, unsigned *tp)

- int ppl_Int16_Box_CC76_widening_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_widening_assign_with_tokens (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y, unsigned ∗tp)
- int ppl_Int16_Box_widening_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y)
- int ppl_Int16_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Int16_Box_limited_CC76_extrapolation_assign (ppl_Int16_Box_t x, ppl_const_Int16_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Int16_Box_linear_partition (ppl_const_Int16_Box_t x, ppl_const_Int16_Box_t y, ppl_Int16_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Int16_Box_wrap_assign (ppl_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Int16_Box_recycle_Constraint_System (ppl_Int16_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Int16_Box_recycle_Congruence_System (ppl_Int16_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Int16_Box_recycle_Generator_System (ppl_Int16_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Int16_Box_from_Int16_Box (ppl_Int16_Box_t dst, ppl_const_Int16_Box_t src)
- int ppl_Int16_Box_add_recycled_constraints (ppl_Int16_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Int16_Box_add_recycled_congruences (ppl_Int16_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Int16_Box (ppl_const_Int16_Box_t pset)
- int ppl_termination_test_PR_Int16_Box (ppl_const_Int16_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Int16_Box (ppl_const_Int16_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int16_Box (ppl_const_Int16_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int16_Box (ppl_const_Int16_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int16_Box (ppl_const_Int16_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after)
- int ppl_termination_test_PR_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int16_Box_2 (ppl_const_Int16_Box_t pset_before, ppl_const_Int16_Box_t pset_after, ppl_Polyhedron_t ph)

10.34.1 Detailed Description

Types and functions for ppl_Int16_Box_tag.

10.34.2 Friends And Related Function Documentation

10.34.2.1 int ppl_all_affine_ranking_functions_MS_Int16_Box (ppl_const_Int16_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.34.2.2 int ppl_all_affine_ranking_functions_MS_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.34.2.3 int ppl_all_affine_ranking_functions_PR_Int16_Box (ppl_const_Int16_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.34.2.4 int ppl_all_affine_ranking_functions_PR_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.34.2.5 int ppl_assign_Int16_Box_from_Int16_Box (ppl_Int16_Box_t *dst*, ppl_const_Int16_Box_t *src*) [related]

10.34.2.6 int ppl_delete_Int16_Box (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.7 int ppl_Int16_Box_add_congruence (ppl_Int16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.34.2.8 int ppl_Int16_Box_add_congruences (ppl_Int16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.34.2.9 int ppl_Int16_Box_add_constraint (ppl_Int16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.34.2.10 int ppl_Int16_Box_add_constraints (ppl_Int16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.34.2.11 int ppl_Int16_Box_add_recycled_congruences (ppl_Int16_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.34.2.12 int ppl_Int16_Box_add_recycled_constraints (ppl_Int16_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.34.2.13 int ppl_Int16_Box_add_space_dimensions_and_embed (ppl_Int16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.34.2.14 int ppl_Int16_Box_add_space_dimensions_and_project (ppl_Int16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.34.2.15 int ppl_Int16_Box_affine_dimension (ppl_const_Int16_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.34.2.16 int ppl_Int16_Box_affine_image (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.34.2.17 int ppl_Int16_Box_affine_preimage (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.34.2.18 int ppl_Int16_Box_bounded_affine_image (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.34.2.19 int ppl_Int16_Box_bounded_affine_preimage (ppl_Int16_Box_t *ph*, ppl_dimension_-type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.34.2.20 int ppl_Int16_Box_bounds_from_above (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.34.2.21 int ppl_Int16_Box_bounds_from_below (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.34.2.22 int ppl_Int16_Box_CC76_widening_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.23 int ppl_Int16_Box_CC76_widening_assign_with_tokens (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*, unsigned * *tp*) [related]

10.34.2.24 int ppl_Int16_Box_concatenate_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.25 int ppl_Int16_Box_constrains (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.34.2.26 int ppl_Int16_Box_contains_Int16_Box (ppl_const_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.27 int ppl_Int16_Box_contains_integer_point (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.28 int ppl_Int16_Box_difference_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.29 int ppl_Int16_Box_drop_some_non_integer_points (ppl_Int16_Box_t *ph*, int *complexity*) [related]

10.34.2.30 int ppl_Int16_Box_drop_some_non_integer_points_2 (ppl_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.34.2.31 int ppl_Int16_Box_equals_Int16_Box (ppl_const_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.32 int ppl_Int16_Box_expand_space_dimension (ppl_Int16_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.34.2.33 int ppl_Int16_Box_external_memory_in_bytes (ppl_const_Int16_Box_t *ps*, size_t ∗ *sz*) [related]

10.34.2.34 int ppl_Int16_Box_fold_space_dimensions (ppl_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.34.2.35 int ppl_Int16_Box_frequency (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.34.2.36 int ppl_Int16_Box_generalized_affine_image (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.34.2.37 int ppl_Int16_Box_generalized_affine_image_lhs_rhs (ppl_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.34.2.38 int ppl_Int16_Box_generalized_affine_preimage (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.34.2.39 int ppl_Int16_Box_generalized_affine_preimage_lhs_rhs (ppl_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.34.2.40 int ppl_Int16_Box_get_congruences (ppl_const_Int16_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.34.2.41 int ppl_Int16_Box_get_constraints (ppl_const_Int16_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.34.2.42 int ppl_Int16_Box_get_minimized_congruences (ppl_const_Int16_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.34.2.43 int ppl_Int16_Box_get_minimized_constraints (ppl_const_Int16_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.34.2.44 int ppl_Int16_Box_intersection_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.45 int ppl_Int16_Box_is_bounded (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.46 int ppl_Int16_Box_is_discrete (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.47 int ppl_Int16_Box_is_disjoint_from_Int16_Box (ppl_const_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.48 int ppl_Int16_Box_is_empty (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.49 int ppl_Int16_Box_is_topologically_closed (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.50 int ppl_Int16_Box_is_universe (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.51 int ppl_Int16_Box_limited_CC76_extrapolation_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.34.2.52 int ppl_Int16_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.34.2.53 int ppl_Int16_Box_linear_partition (ppl_const_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*, ppl_Int16_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.34.2.54 int ppl_Int16_Box_map_space_dimensions (ppl_Int16_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.34.2.55 int ppl_Int16_Box_maximize (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.34.2.56 int ppl_Int16_Box_maximize_with_point (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.34.2.57 int ppl_Int16_Box_minimize (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.34.2.58 int ppl_Int16_Box_minimize_with_point (ppl_const_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.34.2.59 int ppl_Int16_Box_OK (ppl_const_Int16_Box_t *ph*) [related]

10.34.2.60 int ppl_Int16_Box_refine_with_congruence (ppl_Int16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.34.2.61 int ppl_Int16_Box_refine_with_congruences (ppl_Int16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.34.2.62 int ppl_Int16_Box_refine_with_constraint (ppl_Int16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.34.2.63 int ppl_Int16_Box_refine_with_constraints (ppl_Int16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.34.2.64 int ppl_Int16_Box_relation_with_Congruence (ppl_const_Int16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.34.2.65 int ppl_Int16_Box_relation_with_Constraint (ppl_const_Int16_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.34.2.66 int ppl_Int16_Box_relation_with_Generator (ppl_const_Int16_Box_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.34.2.67 int ppl_Int16_Box_remove_higher_space_dimensions (ppl_Int16_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.34.2.68 int ppl_Int16_Box_remove_space_dimensions (ppl_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.34.2.69 int ppl_Int16_Box_simplify_using_context_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) `[related]`

10.34.2.70 int ppl_Int16_Box_space_dimension (ppl_const_Int16_Box_t *ph*, ppl_dimension_type ∗ *m*) `[related]`

10.34.2.71 int ppl_Int16_Box_strictly_contains_Int16_Box (ppl_const_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) `[related]`

10.34.2.72 int ppl_Int16_Box_time_elapse_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) `[related]`

10.34.2.73 int ppl_Int16_Box_topological_closure_assign (ppl_Int16_Box_t *ph*) `[related]`

10.34.2.74 int ppl_Int16_Box_total_memory_in_bytes (ppl_const_Int16_Box_t *ps*, size_t ∗ *sz*) `[related]`

10.34.2.75 int ppl_Int16_Box_unconstrain_space_dimension (ppl_Int16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.34.2.76 int ppl_Int16_Box_unconstrain_space_dimensions (ppl_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.34.2.77 int ppl_Int16_Box_upper_bound_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.78 int ppl_Int16_Box_upper_bound_assign_if_exact (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.79 int ppl_Int16_Box_widening_assign (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*) [related]

10.34.2.80 int ppl_Int16_Box_widening_assign_with_tokens (ppl_Int16_Box_t *x*, ppl_const_Int16_Box_t *y*, unsigned ∗ *tp*) [related]

10.34.2.81 int ppl_Int16_Box_wrap_assign (ppl_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.34.2.82 int ppl_new_Int16_Box_from_BD_Shape_double (ppl_Int16_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.34.2.83 int ppl_new_Int16_Box_from_BD_Shape_double_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.34.2.84 int ppl_new_Int16_Box_from_BD_Shape_float (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.34.2.85 int ppl_new_Int16_Box_from_BD_Shape_float_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.34.2.86 int ppl_new_Int16_Box_from_BD_Shape_int16_t (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.34.2.87 int ppl_new_Int16_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.34.2.88 int ppl_new_Int16_Box_from_BD_Shape_int32_t (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.34.2.89 int ppl_new_Int16_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.34.2.90 int ppl_new_Int16_Box_from_BD_Shape_int64_t (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.34.2.91 int ppl_new_Int16_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.34.2.92 int ppl_new_Int16_Box_from_BD_Shape_int8_t (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.34.2.93 int ppl_new_Int16_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.34.2.94 int ppl_new_Int16_Box_from_BD_Shape_long_double (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.34.2.95 int ppl_new_Int16_Box_from_BD_Shape_long_double_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.34.2.96 int ppl_new_Int16_Box_from_BD_Shape_mpq_class (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.34.2.97 int ppl_new_Int16_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.34.2.98 int ppl_new_Int16_Box_from_BD_Shape_mpz_class (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.34.2.99 int ppl_new_Int16_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.34.2.100 int ppl_new_Int16_Box_from_C_Polyhedron (ppl_Int16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.34.2.101 int ppl_new_Int16_Box_from_C_Polyhedron_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.34.2.102 int ppl_new_Int16_Box_from_Congruence_System (ppl_Int16_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.34.2.103 int ppl_new_Int16_Box_from_Constraint_System (ppl_Int16_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.34.2.104 int ppl_new_Int16_Box_from_Double_Box (ppl_Int16_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.34.2.105 int ppl_new_Int16_Box_from_Double_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.34.2.106 int ppl_new_Int16_Box_from_Float_Box (ppl_Int16_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.34.2.107 int ppl_new_Int16_Box_from_Float_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.34.2.108 int ppl_new_Int16_Box_from_Generator_System (ppl_Int16_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.34.2.109 int ppl_new_Int16_Box_from_Grid (ppl_Int16_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.34.2.110 int ppl_new_Int16_Box_from_Grid_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.34.2.111 int ppl_new_Int16_Box_from_Int16_Box (ppl_Int16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.34.2.112 int ppl_new_Int16_Box_from_Int16_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.34.2.113 int ppl_new_Int16_Box_from_Int32_Box (ppl_Int16_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.34.2.114 int ppl_new_Int16_Box_from_Int32_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.34.2.115 int ppl_new_Int16_Box_from_Int64_Box (ppl_Int16_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.34.2.116 int ppl_new_Int16_Box_from_Int64_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.34.2.117 int ppl_new_Int16_Box_from_Int8_Box (ppl_Int16_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.34.2.118 int ppl_new_Int16_Box_from_Int8_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.34.2.119 int ppl_new_Int16_Box_from_Long_Double_Box (ppl_Int16_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.34.2.120 int ppl_new_Int16_Box_from_Long_Double_Box_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.34.2.121 int ppl_new_Int16_Box_from_NNC_Polyhedron (ppl_Int16_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.34.2.122 int ppl_new_Int16_Box_from_NNC_Polyhedron_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.34.2.123 int ppl_new_Int16_Box_from_Octagonal_Shape_double (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.34.2.124 int ppl_new_Int16_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.34.2.125 int ppl_new_Int16_Box_from_Octagonal_Shape_float (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.34.2.126 int ppl_new_Int16_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.34.2.127 int ppl_new_Int16_Box_from_Octagonal_Shape_int16_t (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.34.2.128 int ppl_new_Int16_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int16_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.34.2.129 int ppl_new_Int16_Box_from_Octagonal_Shape_int32_t (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.34.2.130 int ppl_new_Int16_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.34.2.131 int ppl_new_Int16_Box_from_Octagonal_Shape_int64_t (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.34.2.132 int ppl_new_Int16_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.34.2.133 int ppl_new_Int16_Box_from_Octagonal_Shape_int8_t (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.34.2.134 int ppl_new_Int16_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.34.2.135 int ppl_new_Int16_Box_from_Octagonal_Shape_long_double (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.34.2.136 int ppl_new_Int16_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.34.2.137 int ppl_new_Int16_Box_from_Octagonal_Shape_mpq_class (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.34.2.138 int ppl_new_Int16_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.34.2.139 int ppl_new_Int16_Box_from_Octagonal_Shape_mpz_class (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.34.2.140 int ppl_new_Int16_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.34.2.141 int ppl_new_Int16_Box_from_Rational_Box (ppl_Int16_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.34.2.142 int ppl_new_Int16_Box_from_Rational_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.34.2.143 int ppl_new_Int16_Box_from_space_dimension (ppl_Int16_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.34.2.144 int ppl_new_Int16_Box_from_Uint16_Box (ppl_Int16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.34.2.145 int ppl_new_Int16_Box_from_Uint16_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.34.2.146 int ppl_new_Int16_Box_from_Uint32_Box (ppl_Int16_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.34.2.147 int ppl_new_Int16_Box_from_Uint32_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.34.2.148 int ppl_new_Int16_Box_from_Uint64_Box (ppl_Int16_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.34.2.149 int ppl_new_Int16_Box_from_Uint64_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.34.2.150 int ppl_new_Int16_Box_from_Uint8_Box (ppl_Int16_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.34.2.151 int ppl_new_Int16_Box_from_Uint8_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.34.2.152 int ppl_new_Int16_Box_from_Z_Box (ppl_Int16_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.34.2.153 int ppl_new_Int16_Box_from_Z_Box_with_complexity (ppl_Int16_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.34.2.154 int ppl_new_Int16_Box_recycle_Congruence_System (ppl_Int16_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.34.2.155 int ppl_new_Int16_Box_recycle_Constraint_System (ppl_Int16_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.34.2.156 int ppl_new_Int16_Box_recycle_Generator_System (ppl_Int16_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.34.2.157 int ppl_one_affine_ranking_function_MS_Int16_Box (ppl_const_Int16_Box_t *pset*, ppl_Generator_t *point*) [related]

10.34.2.158 int ppl_one_affine_ranking_function_MS_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.34.2.159 int ppl_one_affine_ranking_function_PR_Int16_Box (ppl_const_Int16_Box_t *pset*, ppl_Generator_t *point*) [related]

10.34.2.160 int ppl_one_affine_ranking_function_PR_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.34.2.161 int ppl_termination_test_MS_Int16_Box (ppl_const_Int16_Box_t *pset*) [related]

10.34.2.162 int ppl_termination_test_MS_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*) [related]

10.34.2.163 int ppl_termination_test_PR_Int16_Box (ppl_const_Int16_Box_t *pset*) [related]

10.34.2.164 int ppl_termination_test_PR_Int16_Box_2 (ppl_const_Int16_Box_t *pset_before*, ppl_const_Int16_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.35 ppl_Int32_Box_tag Interface Reference

Types and functions for ppl_Int32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Int32_Box (ppl_const_Int32_Box_t ph)
- int ppl_new_Int32_Box_from_space_dimension (ppl_Int32_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Int32_Box_from_Int8_Box (ppl_Int32_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Int32_Box_from_Int16_Box (ppl_Int32_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Int32_Box_from_Int32_Box (ppl_Int32_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Int32_Box_from_Int64_Box (ppl_Int32_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Int32_Box_from_Uint8_Box (ppl_Int32_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Int32_Box_from_Uint16_Box (ppl_Int32_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Int32_Box_from_Uint32_Box (ppl_Int32_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Int32_Box_from_Uint64_Box (ppl_Int32_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Int32_Box_from_Z_Box (ppl_Int32_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Int32_Box_from_Rational_Box (ppl_Int32_Box_t *pph, ppl_const_Rational_Box_-t ph)
- int ppl_new_Int32_Box_from_BD_Shape_int8_t (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_-int8_t_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_int16_t (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_-int16_t_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_int32_t (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_-int32_t_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_int64_t (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_-int64_t_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_mpz_class (ppl_Int32_Box_t *pph, ppl_const_BD_-Shape_mpz_class_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_mpq_class (ppl_Int32_Box_t *pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int8_t (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int16_t (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int32_t (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int64_t (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_mpz_class (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_mpq_class (ppl_Int32_Box_t *pph, ppl_const_-Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Int32_Box_from_C_Polyhedron (ppl_Int32_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int32_Box_from_NNC_Polyhedron (ppl_Int32_Box_t *pph, ppl_const_Polyhedron_t ph)

- int ppl_new_Int32_Box_from_Grid (ppl_Int32_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Int32_Box_from_Float_Box (ppl_Int32_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_float (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_float (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Int32_Box_from_Double_Box (ppl_Int32_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_double (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_double (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Int32_Box_from_Long_Double_Box (ppl_Int32_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Int32_Box_from_BD_Shape_long_double (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Int32_Box_from_Octagonal_Shape_long_double (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Int32_Box_from_Int8_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Int16_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Int32_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Int64_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Uint8_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Uint16_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Uint32_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Uint64_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Z_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_Rational_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)

- int ppl_new_Int32_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int32_Box_from_C_Polyhedron_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int32_Box_from_NNC_Polyhedron_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int32_Box_from_Grid_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Int32_Box_from_Float_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_float_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Int32_Box_from_Double_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_double_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Int32_Box_from_Long_Double_Box_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Int32_Box_from_BD_Shape_long_double_with_complexity (ppl_Int32_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Int32_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int32_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Int32_Box_from_Constraint_System (ppl_Int32_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Int32_Box_from_Congruence_System (ppl_Int32_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Int32_Box_from_Generator_System (ppl_Int32_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Int32_Box_space_dimension (ppl_const_Int32_Box_t ph, ppl_dimension_type *m)
- int ppl_Int32_Box_affine_dimension (ppl_const_Int32_Box_t ph, ppl_dimension_type *m)
- int ppl_Int32_Box_relation_with_Constraint (ppl_const_Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int32_Box_relation_with_Generator (ppl_const_Int32_Box_t ph, ppl_const_Generator_t c)
- int ppl_Int32_Box_relation_with_Congruence (ppl_const_Int32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int32_Box_get_constraints (ppl_const_Int32_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int32_Box_get_congruences (ppl_const_Int32_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int32_Box_get_minimized_constraints (ppl_const_Int32_Box_t ph, ppl_const_Constraint_System_t *pcs)

- int ppl_Int32_Box_get_minimized_congruences (ppl_const_Int32_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int32_Box_is_empty (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_is_universe (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_is_bounded (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_contains_integer_point (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_is_topologically_closed (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_is_discrete (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_topological_closure_assign (ppl_Int32_Box_t ph)
- int ppl_Int32_Box_bounds_from_above (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int32_Box_bounds_from_below (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int32_Box_maximize (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int32_Box_minimize (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int32_Box_maximize_with_point (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int32_Box_minimize_with_point (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int32_Box_frequency (ppl_const_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Int32_Box_contains_Int32_Box (ppl_const_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_strictly_contains_Int32_Box (ppl_const_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_is_disjoint_from_Int32_Box (ppl_const_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_equals_Int32_Box (ppl_const_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_OK (ppl_const_Int32_Box_t ph)
- int ppl_Int32_Box_add_constraint (ppl_Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int32_Box_add_congruence (ppl_Int32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int32_Box_add_constraints (ppl_Int32_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int32_Box_add_congruences (ppl_Int32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int32_Box_refine_with_constraint (ppl_Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int32_Box_refine_with_congruence (ppl_Int32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int32_Box_refine_with_constraints (ppl_Int32_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int32_Box_refine_with_congruences (ppl_Int32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int32_Box_intersection_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_upper_bound_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_difference_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_concatenate_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_time_elapse_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_upper_bound_assign_if_exact (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_simplify_using_context_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_constrains (ppl_Int32_Box_t ph, ppl_dimension_type var)
- int ppl_Int32_Box_unconstrain_space_dimension (ppl_Int32_Box_t ph, ppl_dimension_type var)

- int ppl_Int32_Box_unconstrain_space_dimensions (ppl_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int32_Box_affine_image (ppl_Int32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_affine_preimage (ppl_Int32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_bounded_affine_image (ppl_Int32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_bounded_affine_preimage (ppl_Int32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_generalized_affine_image (ppl_Int32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_generalized_affine_preimage (ppl_Int32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int32_Box_generalized_affine_image_lhs_rhs (ppl_Int32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int32_Box_generalized_affine_preimage_lhs_rhs (ppl_Int32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int32_Box_add_space_dimensions_and_embed (ppl_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Int32_Box_add_space_dimensions_and_project (ppl_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Int32_Box_remove_space_dimensions (ppl_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int32_Box_remove_higher_space_dimensions (ppl_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Int32_Box_expand_space_dimension (ppl_Int32_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Int32_Box_fold_space_dimensions (ppl_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Int32_Box_map_space_dimensions (ppl_Int32_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Int32_Box_drop_some_non_integer_points (ppl_Int32_Box_t ph, int complexity)
- int ppl_Int32_Box_drop_some_non_integer_points_2 (ppl_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Int32_Box_external_memory_in_bytes (ppl_const_Int32_Box_t ps, size_t ∗sz)
- int ppl_Int32_Box_total_memory_in_bytes (ppl_const_Int32_Box_t ps, size_t ∗sz)
- int ppl_Int32_Box_CC76_widening_assign_with_tokens (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y, unsigned ∗tp)
- int ppl_Int32_Box_CC76_widening_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_widening_assign_with_tokens (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y, unsigned ∗tp)
- int ppl_Int32_Box_widening_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y)
- int ppl_Int32_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Int32_Box_limited_CC76_extrapolation_assign (ppl_Int32_Box_t x, ppl_const_Int32_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Int32_Box_linear_partition (ppl_const_Int32_Box_t x, ppl_const_Int32_Box_t y, ppl_Int32_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Int32_Box_wrap_assign (ppl_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)

- int ppl_new_Int32_Box_recycle_Constraint_System (ppl_Int32_Box_t *pph, ppl_Constraint_-System_t cs)
- int ppl_new_Int32_Box_recycle_Congruence_System (ppl_Int32_Box_t *pph, ppl_Congruence_-System_t cs)
- int ppl_new_Int32_Box_recycle_Generator_System (ppl_Int32_Box_t *pph, ppl_Generator_-System_t cs)
- int ppl_assign_Int32_Box_from_Int32_Box (ppl_Int32_Box_t dst, ppl_const_Int32_Box_t src)
- int ppl_Int32_Box_add_recycled_constraints (ppl_Int32_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Int32_Box_add_recycled_congruences (ppl_Int32_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Int32_Box (ppl_const_Int32_Box_t pset)
- int ppl_termination_test_PR_Int32_Box (ppl_const_Int32_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Int32_Box (ppl_const_Int32_Box_t pset, ppl_-Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int32_Box (ppl_const_Int32_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int32_Box (ppl_const_Int32_Box_t pset, ppl_-Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int32_Box (ppl_const_Int32_Box_t pset, ppl_-Polyhedron_t ph)
- int ppl_termination_test_MS_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_const_Int32_-Box_t pset_after)
- int ppl_termination_test_PR_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_const_Int32_-Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_-const_Int32_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_-const_Int32_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_-const_Int32_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int32_Box_2 (ppl_const_Int32_Box_t pset_before, ppl_-const_Int32_Box_t pset_after, ppl_Polyhedron_t ph)

10.35.1 Detailed Description

Types and functions for ppl_Int32_Box_tag.

10.35.2 Friends And Related Function Documentation

10.35.2.1 int ppl_all_affine_ranking_functions_MS_Int32_Box (ppl_const_Int32_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.35.2.2 int ppl_all_affine_ranking_functions_MS_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.35.2.3 int ppl_all_affine_ranking_functions_PR_Int32_Box (ppl_const_Int32_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.35.2.4 int ppl_all_affine_ranking_functions_PR_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.35.2.5 int ppl_assign_Int32_Box_from_Int32_Box (ppl_Int32_Box_t *dst*, ppl_const_Int32_Box_t *src*) [related]

10.35.2.6 int ppl_delete_Int32_Box (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.7 int ppl_Int32_Box_add_congruence (ppl_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.35.2.8 int ppl_Int32_Box_add_congruences (ppl_Int32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.35.2.9 int ppl_Int32_Box_add_constraint (ppl_Int32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.35.2.10 int ppl_Int32_Box_add_constraints (ppl_Int32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.35.2.11 int ppl_Int32_Box_add_recycled_congruences (ppl_Int32_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.35.2.12 int ppl_Int32_Box_add_recycled_constraints (ppl_Int32_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.35.2.13 int ppl_Int32_Box_add_space_dimensions_and_embed (ppl_Int32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.35.2.14 int ppl_Int32_Box_add_space_dimensions_and_project (ppl_Int32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.35.2.15 int ppl_Int32_Box_affine_dimension (ppl_const_Int32_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.35.2.16 int ppl_Int32_Box_affine_image (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.35.2.17 int ppl_Int32_Box_affine_preimage (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.35.2.18 int ppl_Int32_Box_bounded_affine_image (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.35.2.19 int ppl_Int32_Box_bounded_affine_preimage (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.35.2.20 int ppl_Int32_Box_bounds_from_above (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.35.2.21 int ppl_Int32_Box_bounds_from_below (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.35.2.22 int ppl_Int32_Box_CC76_widening_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.23 int ppl_Int32_Box_CC76_widening_assign_with_tokens (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*, unsigned * *tp*) [related]

10.35.2.24 int ppl_Int32_Box_concatenate_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.25 int ppl_Int32_Box_constrains (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.35.2.26 int ppl_Int32_Box_contains_Int32_Box (ppl_const_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.27 int ppl_Int32_Box_contains_integer_point (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.28 int ppl_Int32_Box_difference_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.29 int ppl_Int32_Box_drop_some_non_integer_points (ppl_Int32_Box_t *ph*, int *complexity*) [related]

10.35.2.30 int ppl_Int32_Box_drop_some_non_integer_points_2 (ppl_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.35.2.31 int ppl_Int32_Box_equals_Int32_Box (ppl_const_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.32 int ppl_Int32_Box_expand_space_dimension (ppl_Int32_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.35.2.33 int ppl_Int32_Box_external_memory_in_bytes (ppl_const_Int32_Box_t *ps*, size_t ∗ *sz*) [related]

10.35.2.34 int ppl_Int32_Box_fold_space_dimensions (ppl_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.35.2.35 int ppl_Int32_Box_frequency (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.35.2.36 int ppl_Int32_Box_generalized_affine_image (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.35.2.37 int ppl_Int32_Box_generalized_affine_image_lhs_rhs (ppl_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.35.2.38 int ppl_Int32_Box_generalized_affine_preimage (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.35.2.39 int ppl_Int32_Box_generalized_affine_preimage_lhs_rhs (ppl_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.35.2.40 int ppl_Int32_Box_get_congruences (ppl_const_Int32_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.35.2.41 int ppl_Int32_Box_get_constraints (ppl_const_Int32_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.35.2.42 int ppl_Int32_Box_get_minimized_congruences (ppl_const_Int32_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.35.2.43 int ppl_Int32_Box_get_minimized_constraints (ppl_const_Int32_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.35.2.44 int ppl_Int32_Box_intersection_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.45 int ppl_Int32_Box_is_bounded (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.46 int ppl_Int32_Box_is_discrete (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.47 int ppl_Int32_Box_is_disjoint_from_Int32_Box (ppl_const_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.48 int ppl_Int32_Box_is_empty (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.49 int ppl_Int32_Box_is_topologically_closed (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.50 int ppl_Int32_Box_is_universe (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.51 int ppl_Int32_Box_limited_CC76_extrapolation_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.35.2.52 int ppl_Int32_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.35.2.53 int ppl_Int32_Box_linear_partition (ppl_const_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*, ppl_Int32_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.35.2.54 int ppl_Int32_Box_map_space_dimensions (ppl_Int32_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.35.2.55 int ppl_Int32_Box_maximize (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.35.2.56 int ppl_Int32_Box_maximize_with_point (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.35.2.57 int ppl_Int32_Box_minimize (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.35.2.58 int ppl_Int32_Box_minimize_with_point (ppl_const_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.35.2.59 int ppl_Int32_Box_OK (ppl_const_Int32_Box_t *ph*) [related]

10.35.2.60 int ppl_Int32_Box_refine_with_congruence (ppl_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.35.2.61 int ppl_Int32_Box_refine_with_congruences (ppl_Int32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.35.2.62 int ppl_Int32_Box_refine_with_constraint (ppl_Int32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.35.2.63 int ppl_Int32_Box_refine_with_constraints (ppl_Int32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.35.2.64 int ppl_Int32_Box_relation_with_Congruence (ppl_const_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.35.2.65 int ppl_Int32_Box_relation_with_Constraint (ppl_const_Int32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.35.2.66 int ppl_Int32_Box_relation_with_Generator (ppl_const_Int32_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.35.2.67 int ppl_Int32_Box_remove_higher_space_dimensions (ppl_Int32_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.35.2.68 int ppl_Int32_Box_remove_space_dimensions (ppl_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.35.2.69 int ppl_Int32_Box_simplify_using_context_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) `[related]`

10.35.2.70 int ppl_Int32_Box_space_dimension (ppl_const_Int32_Box_t *ph*, ppl_dimension_type ∗ *m*) `[related]`

10.35.2.71 int ppl_Int32_Box_strictly_contains_Int32_Box (ppl_const_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) `[related]`

10.35.2.72 int ppl_Int32_Box_time_elapse_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) `[related]`

10.35.2.73 int ppl_Int32_Box_topological_closure_assign (ppl_Int32_Box_t *ph*) `[related]`

10.35.2.74 int ppl_Int32_Box_total_memory_in_bytes (ppl_const_Int32_Box_t *ps*, size_t ∗ *sz*) `[related]`

10.35.2.75 int ppl_Int32_Box_unconstrain_space_dimension (ppl_Int32_Box_t *ph*, ppl_dimension_type *var*) `[related]`

10.35.2.76 int ppl_Int32_Box_unconstrain_space_dimensions (ppl_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.35.2.77 int ppl_Int32_Box_upper_bound_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.78 int ppl_Int32_Box_upper_bound_assign_if_exact (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.79 int ppl_Int32_Box_widening_assign (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*) [related]

10.35.2.80 int ppl_Int32_Box_widening_assign_with_tokens (ppl_Int32_Box_t *x*, ppl_const_Int32_Box_t *y*, unsigned * *tp*) [related]

10.35.2.81 int ppl_Int32_Box_wrap_assign (ppl_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.35.2.82 int ppl_new_Int32_Box_from_BD_Shape_double (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.35.2.83 int ppl_new_Int32_Box_from_BD_Shape_double_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.35.2.84 int ppl_new_Int32_Box_from_BD_Shape_float (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.35.2.85 int ppl_new_Int32_Box_from_BD_Shape_float_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.35.2.86 int ppl_new_Int32_Box_from_BD_Shape_int16_t (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.35.2.87 int ppl_new_Int32_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.35.2.88 int ppl_new_Int32_Box_from_BD_Shape_int32_t (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.35.2.89 int ppl_new_Int32_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.35.2.90 int ppl_new_Int32_Box_from_BD_Shape_int64_t (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.35.2.91 int ppl_new_Int32_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.35.2.92 int ppl_new_Int32_Box_from_BD_Shape_int8_t (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.35.2.93 int ppl_new_Int32_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.35.2.94 int ppl_new_Int32_Box_from_BD_Shape_long_double (ppl_Int32_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.35.2.95 int ppl_new_Int32_Box_from_BD_Shape_long_double_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.35.2.96 int ppl_new_Int32_Box_from_BD_Shape_mpq_class (ppl_Int32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.35.2.97 int ppl_new_Int32_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.35.2.98 int ppl_new_Int32_Box_from_BD_Shape_mpz_class (ppl_Int32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.35.2.99 int ppl_new_Int32_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.35.2.100 int ppl_new_Int32_Box_from_C_Polyhedron (ppl_Int32_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.35.2.101 int ppl_new_Int32_Box_from_C_Polyhedron_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.35.2.102 int ppl_new_Int32_Box_from_Congruence_System (ppl_Int32_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.35.2.103 int ppl_new_Int32_Box_from_Constraint_System (ppl_Int32_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.35.2.104 int ppl_new_Int32_Box_from_Double_Box (ppl_Int32_Box_t * *pph*, ppl_const_Double_Box_t *ph*) `[related]`

10.35.2.105 int ppl_new_Int32_Box_from_Double_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) `[related]`

10.35.2.106 int ppl_new_Int32_Box_from_Float_Box (ppl_Int32_Box_t * *pph*, ppl_const_Float_Box_t *ph*) `[related]`

10.35.2.107 int ppl_new_Int32_Box_from_Float_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) `[related]`

10.35.2.108 int ppl_new_Int32_Box_from_Generator_System (ppl_Int32_Box_t * *pph*, ppl_const_Generator_System_t *cs*) `[related]`

10.35.2.109 int ppl_new_Int32_Box_from_Grid (ppl_Int32_Box_t * *pph*, ppl_const_Grid_t *ph*) `[related]`

10.35.2.110 int ppl_new_Int32_Box_from_Grid_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) `[related]`

10.35.2.111 int ppl_new_Int32_Box_from_Int16_Box (ppl_Int32_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) `[related]`

10.35.2.112 int ppl_new_Int32_Box_from_Int16_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) `[related]`

10.35.2.113 int ppl_new_Int32_Box_from_Int32_Box (ppl_Int32_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) `[related]`

10.35.2.114 int ppl_new_Int32_Box_from_Int32_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) `[related]`

10.35.2.115 int ppl_new_Int32_Box_from_Int64_Box (ppl_Int32_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) `[related]`

10.35.2.116 int ppl_new_Int32_Box_from_Int64_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) `[related]`

10.35.2.117 int ppl_new_Int32_Box_from_Int8_Box (ppl_Int32_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) `[related]`

10.35.2.118 int ppl_new_Int32_Box_from_Int8_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) `[related]`

10.35.2.119 int ppl_new_Int32_Box_from_Long_Double_Box (ppl_Int32_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) `[related]`

10.35.2.120 int ppl_new_Int32_Box_from_Long_Double_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) `[related]`

10.35.2.121 int ppl_new_Int32_Box_from_NNC_Polyhedron (ppl_Int32_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) `[related]`

10.35.2.122 int ppl_new_Int32_Box_from_NNC_Polyhedron_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.35.2.123 int ppl_new_Int32_Box_from_Octagonal_Shape_double (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.35.2.124 int ppl_new_Int32_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.35.2.125 int ppl_new_Int32_Box_from_Octagonal_Shape_float (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.35.2.126 int ppl_new_Int32_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.35.2.127 int ppl_new_Int32_Box_from_Octagonal_Shape_int16_t (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.35.2.128 int ppl_new_Int32_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.35.2.129 int ppl_new_Int32_Box_from_Octagonal_Shape_int32_t (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.35.2.130 int ppl_new_Int32_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.35.2.131 int ppl_new_Int32_Box_from_Octagonal_Shape_int64_t (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.35.2.132 int ppl_new_Int32_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.35.2.133 int ppl_new_Int32_Box_from_Octagonal_Shape_int8_t (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.35.2.134 int ppl_new_Int32_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.35.2.135 int ppl_new_Int32_Box_from_Octagonal_Shape_long_double (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.35.2.136 int ppl_new_Int32_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.35.2.137 int ppl_new_Int32_Box_from_Octagonal_Shape_mpq_class (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.35.2.138 int ppl_new_Int32_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.35.2.139 int ppl_new_Int32_Box_from_Octagonal_Shape_mpz_class (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.35.2.140 int ppl_new_Int32_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.35.2.141 int ppl_new_Int32_Box_from_Rational_Box (ppl_Int32_Box_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.35.2.142 int ppl_new_Int32_Box_from_Rational_Box_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.35.2.143 int ppl_new_Int32_Box_from_space_dimension (ppl_Int32_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.35.2.144 int ppl_new_Int32_Box_from_Uint16_Box (ppl_Int32_Box_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.35.2.145 int ppl_new_Int32_Box_from_Uint16_Box_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.35.2.146 int ppl_new_Int32_Box_from_Uint32_Box (ppl_Int32_Box_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.35.2.147 int ppl_new_Int32_Box_from_Uint32_Box_with_complexity (ppl_Int32_Box_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.35.2.148 int ppl_new_Int32_Box_from_Uint64_Box (ppl_Int32_Box_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.35.2.149 int ppl_new_Int32_Box_from_Uint64_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.35.2.150 int ppl_new_Int32_Box_from_Uint8_Box (ppl_Int32_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.35.2.151 int ppl_new_Int32_Box_from_Uint8_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.35.2.152 int ppl_new_Int32_Box_from_Z_Box (ppl_Int32_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.35.2.153 int ppl_new_Int32_Box_from_Z_Box_with_complexity (ppl_Int32_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.35.2.154 int ppl_new_Int32_Box_recycle_Congruence_System (ppl_Int32_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.35.2.155 int ppl_new_Int32_Box_recycle_Constraint_System (ppl_Int32_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.35.2.156 int ppl_new_Int32_Box_recycle_Generator_System (ppl_Int32_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.35.2.157 int ppl_one_affine_ranking_function_MS_Int32_Box (ppl_const_Int32_Box_t *pset*, ppl_Generator_t *point*) [related]

10.35.2.158 int ppl_one_affine_ranking_function_MS_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.35.2.159 int ppl_one_affine_ranking_function_PR_Int32_Box (ppl_const_Int32_Box_t *pset*, ppl_Generator_t *point*) [related]

10.35.2.160 int ppl_one_affine_ranking_function_PR_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.35.2.161 int ppl_termination_test_MS_Int32_Box (ppl_const_Int32_Box_t *pset*) [related]

10.35.2.162 int ppl_termination_test_MS_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*) [related]

10.35.2.163 int ppl_termination_test_PR_Int32_Box (ppl_const_Int32_Box_t *pset*) [related]

10.35.2.164 int ppl_termination_test_PR_Int32_Box_2 (ppl_const_Int32_Box_t *pset_before*, ppl_const_Int32_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.36 ppl_Int64_Box_tag Interface Reference

Types and functions for ppl_Int64_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Int64_Box (ppl_const_Int64_Box_t ph)

- int ppl_new_Int64_Box_from_space_dimension (ppl_Int64_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Int64_Box_from_Int8_Box (ppl_Int64_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Int64_Box_from_Int16_Box (ppl_Int64_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Int64_Box_from_Int32_Box (ppl_Int64_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Int64_Box_from_Int64_Box (ppl_Int64_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Int64_Box_from_Uint8_Box (ppl_Int64_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Int64_Box_from_Uint16_Box (ppl_Int64_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Int64_Box_from_Uint32_Box (ppl_Int64_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Int64_Box_from_Uint64_Box (ppl_Int64_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Int64_Box_from_Z_Box (ppl_Int64_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Int64_Box_from_Rational_Box (ppl_Int64_Box_t *pph, ppl_const_Rational_Box_-t ph)
- int ppl_new_Int64_Box_from_BD_Shape_int8_t (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-int8_t_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_int16_t (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-int16_t_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_int32_t (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-int32_t_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_int64_t (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-int64_t_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_mpz_class (ppl_Int64_Box_t *pph, ppl_const_BD_-Shape_mpz_class_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_mpq_class (ppl_Int64_Box_t *pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int8_t (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int16_t (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int32_t (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int64_t (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_mpz_class (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_mpq_class (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Int64_Box_from_C_Polyhedron (ppl_Int64_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int64_Box_from_NNC_Polyhedron (ppl_Int64_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int64_Box_from_Grid (ppl_Int64_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Int64_Box_from_Float_Box (ppl_Int64_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_float (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-float_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_float (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_float_t ph)
- int ppl_new_Int64_Box_from_Double_Box (ppl_Int64_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_double (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_-double_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_double (ppl_Int64_Box_t *pph, ppl_const_-Octagonal_Shape_double_t ph)

- int ppl_new_Int64_Box_from_Long_Double_Box (ppl_Int64_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Int64_Box_from_BD_Shape_long_double (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Int64_Box_from_Octagonal_Shape_long_double (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Int64_Box_from_Int8_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Int16_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Int32_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Int64_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Uint8_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Uint16_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Uint32_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Uint64_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Z_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_Rational_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int64_Box_from_C_Polyhedron_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)

- int ppl_new_Int64_Box_from_NNC_Polyhedron_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int64_Box_from_Grid_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Int64_Box_from_Float_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_float_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Int64_Box_from_Double_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_double_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Int64_Box_from_Long_Double_Box_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Int64_Box_from_BD_Shape_long_double_with_complexity (ppl_Int64_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Int64_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int64_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Int64_Box_from_Constraint_System (ppl_Int64_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Int64_Box_from_Congruence_System (ppl_Int64_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Int64_Box_from_Generator_System (ppl_Int64_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Int64_Box_space_dimension (ppl_const_Int64_Box_t ph, ppl_dimension_type *m)
- int ppl_Int64_Box_affine_dimension (ppl_const_Int64_Box_t ph, ppl_dimension_type *m)
- int ppl_Int64_Box_relation_with_Constraint (ppl_const_Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int64_Box_relation_with_Generator (ppl_const_Int64_Box_t ph, ppl_const_Generator_t c)
- int ppl_Int64_Box_relation_with_Congruence (ppl_const_Int64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int64_Box_get_constraints (ppl_const_Int64_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int64_Box_get_congruences (ppl_const_Int64_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int64_Box_get_minimized_constraints (ppl_const_Int64_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int64_Box_get_minimized_congruences (ppl_const_Int64_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int64_Box_is_empty (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_is_universe (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_is_bounded (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_contains_integer_point (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_is_topologically_closed (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_is_discrete (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_topological_closure_assign (ppl_Int64_Box_t ph)
- int ppl_Int64_Box_bounds_from_above (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le)

- int ppl_Int64_Box_bounds_from_below (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int64_Box_maximize (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int64_Box_minimize (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int64_Box_maximize_with_point (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int64_Box_minimize_with_point (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int64_Box_frequency (ppl_const_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Int64_Box_contains_Int64_Box (ppl_const_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_strictly_contains_Int64_Box (ppl_const_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_is_disjoint_from_Int64_Box (ppl_const_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_equals_Int64_Box (ppl_const_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_OK (ppl_const_Int64_Box_t ph)
- int ppl_Int64_Box_add_constraint (ppl_Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int64_Box_add_congruence (ppl_Int64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int64_Box_add_constraints (ppl_Int64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int64_Box_add_congruences (ppl_Int64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int64_Box_refine_with_constraint (ppl_Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int64_Box_refine_with_congruence (ppl_Int64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int64_Box_refine_with_constraints (ppl_Int64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int64_Box_refine_with_congruences (ppl_Int64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int64_Box_intersection_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_upper_bound_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_difference_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_concatenate_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_time_elapse_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_upper_bound_assign_if_exact (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_simplify_using_context_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_constrains (ppl_Int64_Box_t ph, ppl_dimension_type var)
- int ppl_Int64_Box_unconstrain_space_dimension (ppl_Int64_Box_t ph, ppl_dimension_type var)
- int ppl_Int64_Box_unconstrain_space_dimensions (ppl_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int64_Box_affine_image (ppl_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int64_Box_affine_preimage (ppl_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int64_Box_bounded_affine_image (ppl_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int64_Box_bounded_affine_preimage (ppl_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int64_Box_generalized_affine_image (ppl_Int64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Int64_Box_generalized_affine_preimage (ppl_Int64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int64_Box_generalized_affine_image_lhs_rhs (ppl_Int64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int64_Box_generalized_affine_preimage_lhs_rhs (ppl_Int64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int64_Box_add_space_dimensions_and_embed (ppl_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Int64_Box_add_space_dimensions_and_project (ppl_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Int64_Box_remove_space_dimensions (ppl_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int64_Box_remove_higher_space_dimensions (ppl_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Int64_Box_expand_space_dimension (ppl_Int64_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Int64_Box_fold_space_dimensions (ppl_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Int64_Box_map_space_dimensions (ppl_Int64_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Int64_Box_drop_some_non_integer_points (ppl_Int64_Box_t ph, int complexity)
- int ppl_Int64_Box_drop_some_non_integer_points_2 (ppl_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Int64_Box_external_memory_in_bytes (ppl_const_Int64_Box_t ps, size_t ∗sz)
- int ppl_Int64_Box_total_memory_in_bytes (ppl_const_Int64_Box_t ps, size_t ∗sz)
- int ppl_Int64_Box_CC76_widening_assign_with_tokens (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y, unsigned ∗tp)
- int ppl_Int64_Box_CC76_widening_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_widening_assign_with_tokens (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y, unsigned ∗tp)
- int ppl_Int64_Box_widening_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y)
- int ppl_Int64_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Int64_Box_limited_CC76_extrapolation_assign (ppl_Int64_Box_t x, ppl_const_Int64_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Int64_Box_linear_partition (ppl_const_Int64_Box_t x, ppl_const_Int64_Box_t y, ppl_Int64_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Int64_Box_wrap_assign (ppl_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Int64_Box_recycle_Constraint_System (ppl_Int64_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Int64_Box_recycle_Congruence_System (ppl_Int64_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Int64_Box_recycle_Generator_System (ppl_Int64_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Int64_Box_from_Int64_Box (ppl_Int64_Box_t dst, ppl_const_Int64_Box_t src)
- int ppl_Int64_Box_add_recycled_constraints (ppl_Int64_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Int64_Box_add_recycled_congruences (ppl_Int64_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Int64_Box (ppl_const_Int64_Box_t pset)

- int ppl_termination_test_PR_Int64_Box (ppl_const_Int64_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Int64_Box (ppl_const_Int64_Box_t pset, ppl_-Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int64_Box (ppl_const_Int64_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int64_Box (ppl_const_Int64_Box_t pset, ppl_-Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int64_Box (ppl_const_Int64_Box_t pset, ppl_-Polyhedron_t ph)
- int ppl_termination_test_MS_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_const_Int64_-Box_t pset_after)
- int ppl_termination_test_PR_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_const_Int64_-Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_-const_Int64_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_-const_Int64_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_-const_Int64_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int64_Box_2 (ppl_const_Int64_Box_t pset_before, ppl_-const_Int64_Box_t pset_after, ppl_Polyhedron_t ph)

10.36.1 Detailed Description

Types and functions for ppl_Int64_Box_tag.

10.36.2 Friends And Related Function Documentation

10.36.2.1 int ppl_all_affine_ranking_functions_MS_Int64_Box (ppl_const_Int64_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.36.2.2 int ppl_all_affine_ranking_functions_MS_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.36.2.3 int ppl_all_affine_ranking_functions_PR_Int64_Box (ppl_const_Int64_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.36.2.4 int ppl_all_affine_ranking_functions_PR_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.36.2.5 int ppl_assign_Int64_Box_from_Int64_Box (ppl_Int64_Box_t *dst*, ppl_const_Int64_Box_t *src*) [related]

10.36.2.6 int ppl_delete_Int64_Box (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.7 int ppl_Int64_Box_add_congruence (ppl_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.36.2.8 int ppl_Int64_Box_add_congruences (ppl_Int64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.36.2.9 int ppl_Int64_Box_add_constraint (ppl_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.36.2.10 int ppl_Int64_Box_add_constraints (ppl_Int64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.36.2.11 int ppl_Int64_Box_add_recycled_congruences (ppl_Int64_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.36.2.12 int ppl_Int64_Box_add_recycled_constraints (ppl_Int64_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.36.2.13 int ppl_Int64_Box_add_space_dimensions_and_embed (ppl_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.36.2.14 int ppl_Int64_Box_add_space_dimensions_and_project (ppl_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.36.2.15 int ppl_Int64_Box_affine_dimension (ppl_const_Int64_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.36.2.16 int ppl_Int64_Box_affine_image (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.36.2.17 int ppl_Int64_Box_affine_preimage (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.36.2.18 int ppl_Int64_Box_bounded_affine_image (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.36.2.19 int ppl_Int64_Box_bounded_affine_preimage (ppl_Int64_Box_t *ph*, ppl_dimension_-type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.36.2.20 int ppl_Int64_Box_bounds_from_above (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.36.2.21 int ppl_Int64_Box_bounds_from_below (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.36.2.22 int ppl_Int64_Box_CC76_widening_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.23 int ppl_Int64_Box_CC76_widening_assign_with_tokens (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*, unsigned ∗ *tp*) [related]

10.36.2.24 int ppl_Int64_Box_concatenate_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.25 int ppl_Int64_Box_constrains (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.36.2.26 int ppl_Int64_Box_contains_Int64_Box (ppl_const_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.27 int ppl_Int64_Box_contains_integer_point (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.28 int ppl_Int64_Box_difference_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.29 int ppl_Int64_Box_drop_some_non_integer_points (ppl_Int64_Box_t *ph*, int *complexity*) [related]

10.36.2.30 int ppl_Int64_Box_drop_some_non_integer_points_2 (ppl_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.36.2.31 int ppl_Int64_Box_equals_Int64_Box (ppl_const_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.32 int ppl_Int64_Box_expand_space_dimension (ppl_Int64_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.36.2.33 int ppl_Int64_Box_external_memory_in_bytes (ppl_const_Int64_Box_t *ps*, size_t * *sz*) [related]

10.36.2.34 int ppl_Int64_Box_fold_space_dimensions (ppl_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.36.2.35 int ppl_Int64_Box_frequency (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.36.2.36 int ppl_Int64_Box_generalized_affine_image (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.36.2.37 int ppl_Int64_Box_generalized_affine_image_lhs_rhs (ppl_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.36.2.38 int ppl_Int64_Box_generalized_affine_preimage (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.36.2.39 int ppl_Int64_Box_generalized_affine_preimage_lhs_rhs (ppl_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.36.2.40 int ppl_Int64_Box_get_congruences (ppl_const_Int64_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.36.2.41 int ppl_Int64_Box_get_constraints (ppl_const_Int64_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.36.2.42 int ppl_Int64_Box_get_minimized_congruences (ppl_const_Int64_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.36.2.43 int ppl_Int64_Box_get_minimized_constraints (ppl_const_Int64_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.36.2.44 int ppl_Int64_Box_intersection_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.45 int ppl_Int64_Box_is_bounded (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.46 int ppl_Int64_Box_is_discrete (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.47 int ppl_Int64_Box_is_disjoint_from_Int64_Box (ppl_const_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.48 int ppl_Int64_Box_is_empty (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.49 int ppl_Int64_Box_is_topologically_closed (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.50 int ppl_Int64_Box_is_universe (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.51 int ppl_Int64_Box_limited_CC76_extrapolation_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.36.2.52 int ppl_Int64_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.36.2.53 int ppl_Int64_Box_linear_partition (ppl_const_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*, ppl_Int64_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.36.2.54 int ppl_Int64_Box_map_space_dimensions (ppl_Int64_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.36.2.55 int ppl_Int64_Box_maximize (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.36.2.56 int ppl_Int64_Box_maximize_with_point (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.36.2.57 int ppl_Int64_Box_minimize (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.36.2.58 int ppl_Int64_Box_minimize_with_point (ppl_const_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.36.2.59 int ppl_Int64_Box_OK (ppl_const_Int64_Box_t *ph*) [related]

10.36.2.60 int ppl_Int64_Box_refine_with_congruence (ppl_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.36.2.61 int ppl_Int64_Box_refine_with_congruences (ppl_Int64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.36.2.62 int ppl_Int64_Box_refine_with_constraint (ppl_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.36.2.63 int ppl_Int64_Box_refine_with_constraints (ppl_Int64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.36.2.64 int ppl_Int64_Box_relation_with_Congruence (ppl_const_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.36.2.65 int ppl_Int64_Box_relation_with_Constraint (ppl_const_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.36.2.66 int ppl_Int64_Box_relation_with_Generator (ppl_const_Int64_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.36.2.67 int ppl_Int64_Box_remove_higher_space_dimensions (ppl_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.36.2.68 int ppl_Int64_Box_remove_space_dimensions (ppl_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.36.2.69 int ppl_Int64_Box_simplify_using_context_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.70 int ppl_Int64_Box_space_dimension (ppl_const_Int64_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.36.2.71 int ppl_Int64_Box_strictly_contains_Int64_Box (ppl_const_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.72 int ppl_Int64_Box_time_elapse_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.73 int ppl_Int64_Box_topological_closure_assign (ppl_Int64_Box_t *ph*) [related]

10.36.2.74 int ppl_Int64_Box_total_memory_in_bytes (ppl_const_Int64_Box_t *ps*, size_t * *sz*) [related]

10.36.2.75 int ppl_Int64_Box_unconstrain_space_dimension (ppl_Int64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.36.2.76 int ppl_Int64_Box_unconstrain_space_dimensions (ppl_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.36.2.77 int ppl_Int64_Box_upper_bound_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.78 int ppl_Int64_Box_upper_bound_assign_if_exact (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.79 int ppl_Int64_Box_widening_assign (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*) [related]

10.36.2.80 int ppl_Int64_Box_widening_assign_with_tokens (ppl_Int64_Box_t *x*, ppl_const_Int64_Box_t *y*, unsigned ∗ *tp*) [related]

10.36.2.81 int ppl_Int64_Box_wrap_assign (ppl_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.36.2.82 int ppl_new_Int64_Box_from_BD_Shape_double (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.36.2.83 int ppl_new_Int64_Box_from_BD_Shape_double_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.36.2.84 int ppl_new_Int64_Box_from_BD_Shape_float (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.36.2.85 int ppl_new_Int64_Box_from_BD_Shape_float_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.36.2.86 int ppl_new_Int64_Box_from_BD_Shape_int16_t (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.36.2.87 int ppl_new_Int64_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.36.2.88 int ppl_new_Int64_Box_from_BD_Shape_int32_t (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.36.2.89 int ppl_new_Int64_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.36.2.90 int ppl_new_Int64_Box_from_BD_Shape_int64_t (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.36.2.91 int ppl_new_Int64_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.36.2.92 int ppl_new_Int64_Box_from_BD_Shape_int8_t (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.36.2.93 int ppl_new_Int64_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.36.2.94 int ppl_new_Int64_Box_from_BD_Shape_long_double (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.36.2.95 int ppl_new_Int64_Box_from_BD_Shape_long_double_with_complexity (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.36.2.96 int ppl_new_Int64_Box_from_BD_Shape_mpq_class (ppl_Int64_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.36.2.97 int ppl_new_Int64_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.36.2.98 int ppl_new_Int64_Box_from_BD_Shape_mpz_class (ppl_Int64_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.36.2.99 int ppl_new_Int64_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.36.2.100 int ppl_new_Int64_Box_from_C_Polyhedron (ppl_Int64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.36.2.101 int ppl_new_Int64_Box_from_C_Polyhedron_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.36.2.102 int ppl_new_Int64_Box_from_Congruence_System (ppl_Int64_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.36.2.103 int ppl_new_Int64_Box_from_Constraint_System (ppl_Int64_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.36.2.104 int ppl_new_Int64_Box_from_Double_Box (ppl_Int64_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.36.2.105 int ppl_new_Int64_Box_from_Double_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.36.2.106 int ppl_new_Int64_Box_from_Float_Box (ppl_Int64_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.36.2.107 int ppl_new_Int64_Box_from_Float_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.36.2.108 int ppl_new_Int64_Box_from_Generator_System (ppl_Int64_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.36.2.109 int ppl_new_Int64_Box_from_Grid (ppl_Int64_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.36.2.110 int ppl_new_Int64_Box_from_Grid_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.36.2.111 int ppl_new_Int64_Box_from_Int16_Box (ppl_Int64_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.36.2.112 int ppl_new_Int64_Box_from_Int16_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.36.2.113 int ppl_new_Int64_Box_from_Int32_Box (ppl_Int64_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.36.2.114 int ppl_new_Int64_Box_from_Int32_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.36.2.115 int ppl_new_Int64_Box_from_Int64_Box (ppl_Int64_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.36.2.116 int ppl_new_Int64_Box_from_Int64_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.36.2.117 int ppl_new_Int64_Box_from_Int8_Box (ppl_Int64_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.36.2.118 int ppl_new_Int64_Box_from_Int8_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.36.2.119 int ppl_new_Int64_Box_from_Long_Double_Box (ppl_Int64_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.36.2.120 int ppl_new_Int64_Box_from_Long_Double_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.36.2.121 int ppl_new_Int64_Box_from_NNC_Polyhedron (ppl_Int64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.36.2.122 int ppl_new_Int64_Box_from_NNC_Polyhedron_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.36.2.123 int ppl_new_Int64_Box_from_Octagonal_Shape_double (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.36.2.124 int ppl_new_Int64_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.36.2.125 int ppl_new_Int64_Box_from_Octagonal_Shape_float (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.36.2.126 int ppl_new_Int64_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.36.2.127 int ppl_new_Int64_Box_from_Octagonal_Shape_int16_t (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.36.2.128 int ppl_new_Int64_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.36.2.129 int ppl_new_Int64_Box_from_Octagonal_Shape_int32_t (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.36.2.130 int ppl_new_Int64_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.36.2.131 int ppl_new_Int64_Box_from_Octagonal_Shape_int64_t (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.36.2.132 int ppl_new_Int64_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.36.2.133 int ppl_new_Int64_Box_from_Octagonal_Shape_int8_t (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.36.2.134 int ppl_new_Int64_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.36.2.135 int ppl_new_Int64_Box_from_Octagonal_Shape_long_double (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.36.2.136 int ppl_new_Int64_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.36.2.137 int ppl_new_Int64_Box_from_Octagonal_Shape_mpq_class (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.36.2.138 int ppl_new_Int64_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.36.2.139 int ppl_new_Int64_Box_from_Octagonal_Shape_mpz_class (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.36.2.140 int ppl_new_Int64_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.36.2.141 int ppl_new_Int64_Box_from_Rational_Box (ppl_Int64_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.36.2.142 int ppl_new_Int64_Box_from_Rational_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.36.2.143 int ppl_new_Int64_Box_from_space_dimension (ppl_Int64_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.36.2.144 int ppl_new_Int64_Box_from_Uint16_Box (ppl_Int64_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.36.2.145 int ppl_new_Int64_Box_from_Uint16_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.36.2.146 int ppl_new_Int64_Box_from_Uint32_Box (ppl_Int64_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.36.2.147 int ppl_new_Int64_Box_from_Uint32_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.36.2.148 int ppl_new_Int64_Box_from_Uint64_Box (ppl_Int64_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.36.2.149 int ppl_new_Int64_Box_from_Uint64_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.36.2.150 int ppl_new_Int64_Box_from_Uint8_Box (ppl_Int64_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.36.2.151 int ppl_new_Int64_Box_from_Uint8_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.36.2.152 int ppl_new_Int64_Box_from_Z_Box (ppl_Int64_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.36.2.153 int ppl_new_Int64_Box_from_Z_Box_with_complexity (ppl_Int64_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.36.2.154 int ppl_new_Int64_Box_recycle_Congruence_System (ppl_Int64_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.36.2.155 int ppl_new_Int64_Box_recycle_Constraint_System (ppl_Int64_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.36.2.156 int ppl_new_Int64_Box_recycle_Generator_System (ppl_Int64_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.36.2.157 int ppl_one_affine_ranking_function_MS_Int64_Box (ppl_const_Int64_Box_t *pset*, ppl_Generator_t *point*) [related]

10.36.2.158 int ppl_one_affine_ranking_function_MS_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.36.2.159 int ppl_one_affine_ranking_function_PR_Int64_Box (ppl_const_Int64_Box_t *pset*, ppl_Generator_t *point*) [related]

10.36.2.160 int ppl_one_affine_ranking_function_PR_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.36.2.161 int ppl_termination_test_MS_Int64_Box (ppl_const_Int64_Box_t *pset*) [related]

10.36.2.162 int ppl_termination_test_MS_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*) [related]

10.36.2.163 int ppl_termination_test_PR_Int64_Box (ppl_const_Int64_Box_t *pset*) [related]

10.36.2.164 int ppl_termination_test_PR_Int64_Box_2 (ppl_const_Int64_Box_t *pset_before*, ppl_const_Int64_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.37 ppl_Int8_Box_tag Interface Reference

Types and functions for ppl_Int8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Int8_Box (ppl_const_Int8_Box_t ph)

- int ppl_new_Int8_Box_from_space_dimension (ppl_Int8_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Int8_Box_from_Int8_Box (ppl_Int8_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Int8_Box_from_Int16_Box (ppl_Int8_Box_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Int8_Box_from_Int32_Box (ppl_Int8_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Int8_Box_from_Int64_Box (ppl_Int8_Box_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Int8_Box_from_Uint8_Box (ppl_Int8_Box_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Int8_Box_from_Uint16_Box (ppl_Int8_Box_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Int8_Box_from_Uint32_Box (ppl_Int8_Box_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Int8_Box_from_Uint64_Box (ppl_Int8_Box_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Int8_Box_from_Z_Box (ppl_Int8_Box_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Int8_Box_from_Rational_Box (ppl_Int8_Box_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_int8_t (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-int8_t_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_int16_t (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-int16_t_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_int32_t (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-int32_t_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_int64_t (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-int64_t_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_mpz_class (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-mpz_class_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_mpq_class (ppl_Int8_Box_t ∗pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int8_t (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int16_t (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int32_t (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int64_t (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_mpz_class (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_mpq_class (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Int8_Box_from_C_Polyhedron (ppl_Int8_Box_t ∗pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int8_Box_from_NNC_Polyhedron (ppl_Int8_Box_t ∗pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Int8_Box_from_Grid (ppl_Int8_Box_t ∗pph, ppl_const_Grid_t ph)
- int ppl_new_Int8_Box_from_Float_Box (ppl_Int8_Box_t ∗pph, ppl_const_Float_Box_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_float (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_float (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_float_t ph)
- int ppl_new_Int8_Box_from_Double_Box (ppl_Int8_Box_t ∗pph, ppl_const_Double_Box_t ph)
- int ppl_new_Int8_Box_from_BD_Shape_double (ppl_Int8_Box_t ∗pph, ppl_const_BD_Shape_-double_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_double (ppl_Int8_Box_t ∗pph, ppl_const_-Octagonal_Shape_double_t ph)
- int ppl_new_Int8_Box_from_Long_Double_Box (ppl_Int8_Box_t ∗pph, ppl_const_Long_Double_-Box_t ph)

- int ppl_new_Int8_Box_from_BD_Shape_long_double (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Int8_Box_from_Octagonal_Shape_long_double (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Int8_Box_from_Int8_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Int16_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Int32_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Int64_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Uint8_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Uint16_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Uint32_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Uint64_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Z_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_Rational_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Int8_Box_from_C_Polyhedron_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Int8_Box_from_NNC_Polyhedron_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)

- int ppl_new_Int8_Box_from_Grid_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Int8_Box_from_Float_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_float_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Int8_Box_from_Double_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_double_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Int8_Box_from_Long_Double_Box_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Int8_Box_from_BD_Shape_long_double_with_complexity (ppl_Int8_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Int8_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int8_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Int8_Box_from_Constraint_System (ppl_Int8_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Int8_Box_from_Congruence_System (ppl_Int8_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Int8_Box_from_Generator_System (ppl_Int8_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Int8_Box_space_dimension (ppl_const_Int8_Box_t ph, ppl_dimension_type *m)
- int ppl_Int8_Box_affine_dimension (ppl_const_Int8_Box_t ph, ppl_dimension_type *m)
- int ppl_Int8_Box_relation_with_Constraint (ppl_const_Int8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int8_Box_relation_with_Generator (ppl_const_Int8_Box_t ph, ppl_const_Generator_t c)
- int ppl_Int8_Box_relation_with_Congruence (ppl_const_Int8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int8_Box_get_constraints (ppl_const_Int8_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int8_Box_get_congruences (ppl_const_Int8_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int8_Box_get_minimized_constraints (ppl_const_Int8_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Int8_Box_get_minimized_congruences (ppl_const_Int8_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Int8_Box_is_empty (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_is_universe (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_is_bounded (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_contains_integer_point (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_is_topologically_closed (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_is_discrete (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_topological_closure_assign (ppl_Int8_Box_t ph)
- int ppl_Int8_Box_bounds_from_above (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int8_Box_bounds_from_below (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Int8_Box_maximize (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)

- int ppl_Int8_Box_minimize (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Int8_Box_maximize_with_point (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int8_Box_minimize_with_point (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Int8_Box_frequency (ppl_const_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Int8_Box_contains_Int8_Box (ppl_const_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_strictly_contains_Int8_Box (ppl_const_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_is_disjoint_from_Int8_Box (ppl_const_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_equals_Int8_Box (ppl_const_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_OK (ppl_const_Int8_Box_t ph)
- int ppl_Int8_Box_add_constraint (ppl_Int8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int8_Box_add_congruence (ppl_Int8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int8_Box_add_constraints (ppl_Int8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int8_Box_add_congruences (ppl_Int8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int8_Box_refine_with_constraint (ppl_Int8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Int8_Box_refine_with_congruence (ppl_Int8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Int8_Box_refine_with_constraints (ppl_Int8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Int8_Box_refine_with_congruences (ppl_Int8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Int8_Box_intersection_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_upper_bound_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_difference_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_concatenate_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_time_elapse_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_upper_bound_assign_if_exact (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_simplify_using_context_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_constrains (ppl_Int8_Box_t ph, ppl_dimension_type var)
- int ppl_Int8_Box_unconstrain_space_dimension (ppl_Int8_Box_t ph, ppl_dimension_type var)
- int ppl_Int8_Box_unconstrain_space_dimensions (ppl_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int8_Box_affine_image (ppl_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_affine_preimage (ppl_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_bounded_affine_image (ppl_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_bounded_affine_preimage (ppl_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_generalized_affine_image (ppl_Int8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_generalized_affine_preimage (ppl_Int8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Int8_Box_generalized_affine_image_lhs_rhs (ppl_Int8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int8_Box_generalized_affine_preimage_lhs_rhs (ppl_Int8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Int8_Box_add_space_dimensions_and_embed (ppl_Int8_Box_t ph, ppl_dimension_type d)

- int ppl_Int8_Box_add_space_dimensions_and_project (ppl_Int8_Box_t ph, ppl_dimension_type d)
- int ppl_Int8_Box_remove_space_dimensions (ppl_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Int8_Box_remove_higher_space_dimensions (ppl_Int8_Box_t ph, ppl_dimension_type d)
- int ppl_Int8_Box_expand_space_dimension (ppl_Int8_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Int8_Box_fold_space_dimensions (ppl_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Int8_Box_map_space_dimensions (ppl_Int8_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Int8_Box_drop_some_non_integer_points (ppl_Int8_Box_t ph, int complexity)
- int ppl_Int8_Box_drop_some_non_integer_points_2 (ppl_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Int8_Box_external_memory_in_bytes (ppl_const_Int8_Box_t ps, size_t ∗sz)
- int ppl_Int8_Box_total_memory_in_bytes (ppl_const_Int8_Box_t ps, size_t ∗sz)
- int ppl_Int8_Box_CC76_widening_assign_with_tokens (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y, unsigned ∗tp)
- int ppl_Int8_Box_CC76_widening_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_widening_assign_with_tokens (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y, unsigned ∗tp)
- int ppl_Int8_Box_widening_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y)
- int ppl_Int8_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Int8_Box_limited_CC76_extrapolation_assign (ppl_Int8_Box_t x, ppl_const_Int8_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Int8_Box_linear_partition (ppl_const_Int8_Box_t x, ppl_const_Int8_Box_t y, ppl_Int8_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Int8_Box_wrap_assign (ppl_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Int8_Box_recycle_Constraint_System (ppl_Int8_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Int8_Box_recycle_Congruence_System (ppl_Int8_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Int8_Box_recycle_Generator_System (ppl_Int8_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Int8_Box_from_Int8_Box (ppl_Int8_Box_t dst, ppl_const_Int8_Box_t src)
- int ppl_Int8_Box_add_recycled_constraints (ppl_Int8_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Int8_Box_add_recycled_congruences (ppl_Int8_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Int8_Box (ppl_const_Int8_Box_t pset)
- int ppl_termination_test_PR_Int8_Box (ppl_const_Int8_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Int8_Box (ppl_const_Int8_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int8_Box (ppl_const_Int8_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int8_Box (ppl_const_Int8_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int8_Box (ppl_const_Int8_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_const_Int8_Box_t pset_after)

- int ppl_termination_test_PR_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_const_Int8_-Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_-const_Int8_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_-const_Int8_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_-const_Int8_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Int8_Box_2 (ppl_const_Int8_Box_t pset_before, ppl_-const_Int8_Box_t pset_after, ppl_Polyhedron_t ph)

10.37.1 Detailed Description

Types and functions for ppl_Int8_Box_tag.

10.37.2 Friends And Related Function Documentation

10.37.2.1 int ppl_all_affine_ranking_functions_MS_Int8_Box (ppl_const_Int8_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.37.2.2 int ppl_all_affine_ranking_functions_MS_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.37.2.3 int ppl_all_affine_ranking_functions_PR_Int8_Box (ppl_const_Int8_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.37.2.4 int ppl_all_affine_ranking_functions_PR_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.37.2.5 int ppl_assign_Int8_Box_from_Int8_Box (ppl_Int8_Box_t *dst*, ppl_const_Int8_Box_t *src*) [related]

10.37.2.6 int ppl_delete_Int8_Box (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.7 int ppl_Int8_Box_add_congruence (ppl_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.37.2.8 int ppl_Int8_Box_add_congruences (ppl_Int8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.37.2.9 int ppl_Int8_Box_add_constraint (ppl_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.37.2.10 int ppl_Int8_Box_add_constraints (ppl_Int8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.37.2.11 int ppl_Int8_Box_add_recycled_congruences (ppl_Int8_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.37.2.12 int ppl_Int8_Box_add_recycled_constraints (ppl_Int8_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.37.2.13 int ppl_Int8_Box_add_space_dimensions_and_embed (ppl_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.37.2.14 int ppl_Int8_Box_add_space_dimensions_and_project (ppl_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.37.2.15 int ppl_Int8_Box_affine_dimension (ppl_const_Int8_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.37.2.16 int ppl_Int8_Box_affine_image (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.37.2.17 int ppl_Int8_Box_affine_preimage (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.37.2.18 int ppl_Int8_Box_bounded_affine_image (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.37.2.19 int ppl_Int8_Box_bounded_affine_preimage (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.37.2.20 int ppl_Int8_Box_bounds_from_above (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.37.2.21 int ppl_Int8_Box_bounds_from_below (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.37.2.22 int ppl_Int8_Box_CC76_widening_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.23 int ppl_Int8_Box_CC76_widening_assign_with_tokens (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*, unsigned ∗ *tp*) [related]

10.37.2.24 int ppl_Int8_Box_concatenate_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.25 int ppl_Int8_Box_constrains (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.37.2.26 int ppl_Int8_Box_contains_Int8_Box (ppl_const_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.27 int ppl_Int8_Box_contains_integer_point (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.28 int ppl_Int8_Box_difference_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.29 int ppl_Int8_Box_drop_some_non_integer_points (ppl_Int8_Box_t *ph*, int *complexity*) [related]

10.37.2.30 int ppl_Int8_Box_drop_some_non_integer_points_2 (ppl_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.37.2.31 int ppl_Int8_Box_equals_Int8_Box (ppl_const_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.32 int ppl_Int8_Box_expand_space_dimension (ppl_Int8_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.37.2.33 int ppl_Int8_Box_external_memory_in_bytes (ppl_const_Int8_Box_t *ps*, size_t ∗ *sz*) [related]

10.37.2.34 int ppl_Int8_Box_fold_space_dimensions (ppl_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.37.2.35 int ppl_Int8_Box_frequency (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) `[related]`

10.37.2.36 int ppl_Int8_Box_generalized_affine_image (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.37.2.37 int ppl_Int8_Box_generalized_affine_image_lhs_rhs (ppl_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.37.2.38 int ppl_Int8_Box_generalized_affine_preimage (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.37.2.39 int ppl_Int8_Box_generalized_affine_preimage_lhs_rhs (ppl_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.37.2.40 int ppl_Int8_Box_get_congruences (ppl_const_Int8_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) `[related]`

10.37.2.41 int ppl_Int8_Box_get_constraints (ppl_const_Int8_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) `[related]`

10.37.2.42 int ppl_Int8_Box_get_minimized_congruences (ppl_const_Int8_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) `[related]`

10.37.2.43 int ppl_Int8_Box_get_minimized_constraints (ppl_const_Int8_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.37.2.44 int ppl_Int8_Box_intersection_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.45 int ppl_Int8_Box_is_bounded (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.46 int ppl_Int8_Box_is_discrete (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.47 int ppl_Int8_Box_is_disjoint_from_Int8_Box (ppl_const_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.48 int ppl_Int8_Box_is_empty (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.49 int ppl_Int8_Box_is_topologically_closed (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.50 int ppl_Int8_Box_is_universe (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.51 int ppl_Int8_Box_limited_CC76_extrapolation_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.37.2.52 int ppl_Int8_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.37.2.53 int ppl_Int8_Box_linear_partition (ppl_const_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*, ppl_Int8_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.37.2.54 int ppl_Int8_Box_map_space_dimensions (ppl_Int8_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.37.2.55 int ppl_Int8_Box_maximize (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.37.2.56 int ppl_Int8_Box_maximize_with_point (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.37.2.57 int ppl_Int8_Box_minimize (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.37.2.58 int ppl_Int8_Box_minimize_with_point (ppl_const_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.37.2.59 int ppl_Int8_Box_OK (ppl_const_Int8_Box_t *ph*) [related]

10.37.2.60 int ppl_Int8_Box_refine_with_congruence (ppl_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.37.2.61 int ppl_Int8_Box_refine_with_congruences (ppl_Int8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.37.2.62 int ppl_Int8_Box_refine_with_constraint (ppl_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.37.2.63 int ppl_Int8_Box_refine_with_constraints (ppl_Int8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.37.2.64 int ppl_Int8_Box_relation_with_Congruence (ppl_const_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.37.2.65 int ppl_Int8_Box_relation_with_Constraint (ppl_const_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.37.2.66 int ppl_Int8_Box_relation_with_Generator (ppl_const_Int8_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.37.2.67 int ppl_Int8_Box_remove_higher_space_dimensions (ppl_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.37.2.68 int ppl_Int8_Box_remove_space_dimensions (ppl_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.37.2.69 int ppl_Int8_Box_simplify_using_context_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.70 int ppl_Int8_Box_space_dimension (ppl_const_Int8_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.37.2.71 int ppl_Int8_Box_strictly_contains_Int8_Box (ppl_const_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.72 int ppl_Int8_Box_time_elapse_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.73 int ppl_Int8_Box_topological_closure_assign (ppl_Int8_Box_t *ph*) [related]

10.37.2.74 int ppl_Int8_Box_total_memory_in_bytes (ppl_const_Int8_Box_t *ps*, size_t ∗ *sz*) [related]

10.37.2.75 int ppl_Int8_Box_unconstrain_space_dimension (ppl_Int8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.37.2.76 int ppl_Int8_Box_unconstrain_space_dimensions (ppl_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.37.2.77 int ppl_Int8_Box_upper_bound_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.78 int ppl_Int8_Box_upper_bound_assign_if_exact (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.79 int ppl_Int8_Box_widening_assign (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*) [related]

10.37.2.80 int ppl_Int8_Box_widening_assign_with_tokens (ppl_Int8_Box_t *x*, ppl_const_Int8_Box_t *y*, unsigned ∗ *tp*) [related]

10.37.2.81 int ppl_Int8_Box_wrap_assign (ppl_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.37.2.82 int ppl_new_Int8_Box_from_BD_Shape_double (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.37.2.83 int ppl_new_Int8_Box_from_BD_Shape_double_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.37.2.84 int ppl_new_Int8_Box_from_BD_Shape_float (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.37.2.85 int ppl_new_Int8_Box_from_BD_Shape_float_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.37.2.86 int ppl_new_Int8_Box_from_BD_Shape_int16_t (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.37.2.87 int ppl_new_Int8_Box_from_BD_Shape_int16_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.37.2.88 int ppl_new_Int8_Box_from_BD_Shape_int32_t (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.37.2.89 int ppl_new_Int8_Box_from_BD_Shape_int32_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.37.2.90 int ppl_new_Int8_Box_from_BD_Shape_int64_t (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.37.2.91 int ppl_new_Int8_Box_from_BD_Shape_int64_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.37.2.92 int ppl_new_Int8_Box_from_BD_Shape_int8_t (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.37.2.93 int ppl_new_Int8_Box_from_BD_Shape_int8_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.37.2.94 int ppl_new_Int8_Box_from_BD_Shape_long_double (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.37.2.95 int ppl_new_Int8_Box_from_BD_Shape_long_double_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.37.2.96 int ppl_new_Int8_Box_from_BD_Shape_mpq_class (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.37.2.97 int ppl_new_Int8_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.37.2.98 int ppl_new_Int8_Box_from_BD_Shape_mpz_class (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.37.2.99 int ppl_new_Int8_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.37.2.100 int ppl_new_Int8_Box_from_C_Polyhedron (ppl_Int8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.37.2.101 int ppl_new_Int8_Box_from_C_Polyhedron_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.37.2.102 int ppl_new_Int8_Box_from_Congruence_System (ppl_Int8_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.37.2.103 int ppl_new_Int8_Box_from_Constraint_System (ppl_Int8_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.37.2.104 int ppl_new_Int8_Box_from_Double_Box (ppl_Int8_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.37.2.105 int ppl_new_Int8_Box_from_Double_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.37.2.106 int ppl_new_Int8_Box_from_Float_Box (ppl_Int8_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.37.2.107 int ppl_new_Int8_Box_from_Float_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.37.2.108 int ppl_new_Int8_Box_from_Generator_System (ppl_Int8_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.37.2.109 int ppl_new_Int8_Box_from_Grid (ppl_Int8_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.37.2.110 int ppl_new_Int8_Box_from_Grid_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.37.2.111 int ppl_new_Int8_Box_from_Int16_Box (ppl_Int8_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.37.2.112 int ppl_new_Int8_Box_from_Int16_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.37.2.113 int ppl_new_Int8_Box_from_Int32_Box (ppl_Int8_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.37.2.114 int ppl_new_Int8_Box_from_Int32_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.37.2.115 int ppl_new_Int8_Box_from_Int64_Box (ppl_Int8_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.37.2.116 int ppl_new_Int8_Box_from_Int64_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.37.2.117 int ppl_new_Int8_Box_from_Int8_Box (ppl_Int8_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.37.2.118 int ppl_new_Int8_Box_from_Int8_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.37.2.119 int ppl_new_Int8_Box_from_Long_Double_Box (ppl_Int8_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.37.2.120 int ppl_new_Int8_Box_from_Long_Double_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.37.2.121 int ppl_new_Int8_Box_from_NNC_Polyhedron (ppl_Int8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.37.2.122 int ppl_new_Int8_Box_from_NNC_Polyhedron_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.37.2.123 int ppl_new_Int8_Box_from_Octagonal_Shape_double (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.37.2.124 int ppl_new_Int8_Box_from_Octagonal_Shape_double_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.37.2.125 int ppl_new_Int8_Box_from_Octagonal_Shape_float (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.37.2.126 int ppl_new_Int8_Box_from_Octagonal_Shape_float_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.37.2.127 int ppl_new_Int8_Box_from_Octagonal_Shape_int16_t (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.37.2.128 int ppl_new_Int8_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.37.2.129 int ppl_new_Int8_Box_from_Octagonal_Shape_int32_t (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.37.2.130 int ppl_new_Int8_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.37.2.131 int ppl_new_Int8_Box_from_Octagonal_Shape_int64_t (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.37.2.132 int ppl_new_Int8_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.37.2.133 int ppl_new_Int8_Box_from_Octagonal_Shape_int8_t (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.37.2.134 int ppl_new_Int8_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.37.2.135 int ppl_new_Int8_Box_from_Octagonal_Shape_long_double (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.37.2.136 int ppl_new_Int8_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.37.2.137 int ppl_new_Int8_Box_from_Octagonal_Shape_mpq_class (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.37.2.138 int ppl_new_Int8_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.37.2.139 int ppl_new_Int8_Box_from_Octagonal_Shape_mpz_class (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.37.2.140 int ppl_new_Int8_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.37.2.141 int ppl_new_Int8_Box_from_Rational_Box (ppl_Int8_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.37.2.142 int ppl_new_Int8_Box_from_Rational_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.37.2.143 int ppl_new_Int8_Box_from_space_dimension (ppl_Int8_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.37.2.144 int ppl_new_Int8_Box_from_Uint16_Box (ppl_Int8_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.37.2.145 int ppl_new_Int8_Box_from_Uint16_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.37.2.146 int ppl_new_Int8_Box_from_Uint32_Box (ppl_Int8_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.37.2.147 int ppl_new_Int8_Box_from_Uint32_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.37.2.148 int ppl_new_Int8_Box_from_Uint64_Box (ppl_Int8_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.37.2.149 int ppl_new_Int8_Box_from_Uint64_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.37.2.150 int ppl_new_Int8_Box_from_Uint8_Box (ppl_Int8_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.37.2.151 int ppl_new_Int8_Box_from_Uint8_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.37.2.152 int ppl_new_Int8_Box_from_Z_Box (ppl_Int8_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.37.2.153 int ppl_new_Int8_Box_from_Z_Box_with_complexity (ppl_Int8_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.37.2.154 int ppl_new_Int8_Box_recycle_Congruence_System (ppl_Int8_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.37.2.155 int ppl_new_Int8_Box_recycle_Constraint_System (ppl_Int8_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.37.2.156 int ppl_new_Int8_Box_recycle_Generator_System (ppl_Int8_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.37.2.157 int ppl_one_affine_ranking_function_MS_Int8_Box (ppl_const_Int8_Box_t *pset*, ppl_Generator_t *point*) [related]

10.37.2.158 int ppl_one_affine_ranking_function_MS_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.37.2.159 int ppl_one_affine_ranking_function_PR_Int8_Box (ppl_const_Int8_Box_t *pset*, ppl_Generator_t *point*) [related]

10.37.2.160 int ppl_one_affine_ranking_function_PR_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.37.2.161 int ppl_termination_test_MS_Int8_Box (ppl_const_Int8_Box_t *pset*) [related]

10.37.2.162 int ppl_termination_test_MS_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*) [related]

10.37.2.163 int ppl_termination_test_PR_Int8_Box (ppl_const_Int8_Box_t *pset*) [related]

10.37.2.164 int ppl_termination_test_PR_Int8_Box_2 (ppl_const_Int8_Box_t *pset_before*, ppl_const_Int8_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.38 ppl_Linear_Expression_tag Interface Reference

Types and functions for linear expressions.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Constructors, Assignment and Destructor

- int ppl_new_Linear_Expression (ppl_Linear_Expression_t ∗ple)
  Creates a new linear expression corresponding to the constant 0 in a zero-dimensional space; writes a handle for the new linear expression at address `ple`*.*
- int ppl_new_Linear_Expression_with_dimension (ppl_Linear_Expression_t ∗ple, ppl_dimension_type d)
  Creates a new linear expression corresponding to the constant 0 in a `d`*-dimensional space; writes a handle for the new linear expression at address* `ple`*.*
- int ppl_new_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t ∗ple, ppl_const_Linear_Expression_t le)
  Builds a linear expression that is a copy of `le`*; writes a handle for the newly created linear expression at address* `ple`*.*
- int ppl_new_Linear_Expression_from_Constraint (ppl_Linear_Expression_t ∗ple, ppl_const_Constraint_t c)
  Builds a linear expression corresponding to constraint `c`*; writes a handle for the newly created linear expression at address* `ple`*.*
- int ppl_new_Linear_Expression_from_Generator (ppl_Linear_Expression_t ∗ple, ppl_const_Generator_t g)
  Builds a linear expression corresponding to generator `g`*; writes a handle for the newly created linear expression at address* `ple`*.*

- int ppl_new_Linear_Expression_from_Congruence (ppl_Linear_Expression_t *ple, ppl_const_Congruence_t c)
  Builds a linear expression corresponding to congruence `c`*; writes a handle for the newly created linear expression at address* `ple`*.*

- int ppl_new_Linear_Expression_from_Grid_Generator (ppl_Linear_Expression_t *ple, ppl_const_Grid_Generator_t g)
  Builds a linear expression corresponding to grid generator `g`*; writes a handle for the newly created linear expression at address* `ple`*.*

- int ppl_assign_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t dst, ppl_const_Linear_Expression_t src)
  Assigns a copy of the linear expression `src` *to* `dst`*.*

- int ppl_delete_Linear_Expression (ppl_const_Linear_Expression_t le)
  Invalidates the handle `le`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the Linear Expression

- int ppl_Linear_Expression_space_dimension (ppl_const_Linear_Expression_t le, ppl_dimension_type *m)
  Writes to `m` *the space dimension of* `le`*.*

- int ppl_Linear_Expression_coefficient (ppl_const_Linear_Expression_t le, ppl_dimension_type var, ppl_Coefficient_t n)
  Copies into `n` *the coefficient of variable* `var` *in the linear expression* `le`*.*

- int ppl_Linear_Expression_inhomogeneous_term (ppl_const_Linear_Expression_t le, ppl_Coefficient_t n)
  Copies into `n` *the inhomogeneous term of linear expression* `le`*.*

- int ppl_Linear_Expression_OK (ppl_const_Linear_Expression_t le)
  Returns a positive integer if `le` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `le` *is broken. Useful for debugging purposes.*

- int ppl_Linear_Expression_is_zero (ppl_const_Linear_Expression_t le)
  Returns `true` *if and only if* `*this` *is* 0.

- int ppl_Linear_Expression_all_homogeneous_terms_are_zero (ppl_const_Linear_Expression_t le)
  Returns `true` *if and only if all the homogeneous terms of* `*this` *are* 0.

Functions that May Modify the Linear Expression

- int ppl_Linear_Expression_add_to_coefficient (ppl_Linear_Expression_t le, ppl_dimension_type var, ppl_const_Coefficient_t n)
  Adds `n` *to the coefficient of variable* `var` *in the linear expression* `le`*. The space dimension is set to be the maximum between* `var` *+ 1 and the old space dimension.*

- int ppl_Linear_Expression_add_to_inhomogeneous (ppl_Linear_Expression_t le, ppl_const_Coefficient_t n)
  Adds `n` *to the inhomogeneous term of the linear expression* `le`*.*

- int ppl_add_Linear_Expression_to_Linear_Expression (ppl_Linear_Expression_t dst, ppl_const_Linear_Expression_t src)

  Adds the linear expression `src` *to* `dst`*.*

- int ppl_subtract_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t dst, ppl_const_Linear_Expression_t src)

  Subtracts the linear expression `src` *from* `dst`*.*

- int ppl_multiply_Linear_Expression_by_Coefficient (ppl_Linear_Expression_t le, ppl_const_Coefficient_t n)

  Multiply the linear expression `dst` *by* `n`*.*

10.38.1 Detailed Description

Types and functions for linear expressions. The types and functions for linear expression provide an interface towards *Linear_Expression*.

10.38.2 Friends And Related Function Documentation

10.38.2.1 int ppl_add_Linear_Expression_to_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) `[related]`

Adds the linear expression `src` to `dst`.

Definition at line 557 of file ppl_c_implementation_common.cc.

10.38.2.2 int ppl_assign_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) `[related]`

Assigns a copy of the linear expression `src` to `dst`.

Definition at line 526 of file ppl_c_implementation_common.cc.

10.38.2.3 int ppl_delete_Linear_Expression (ppl_const_Linear_Expression_t *le*) `[related]`

Invalidates the handle `le`: this makes sure the corresponding resources will eventually be released.

Definition at line 518 of file ppl_c_implementation_common.cc.

10.38.2.4 int ppl_Linear_Expression_add_to_coefficient (ppl_Linear_Expression_t *le*, ppl_dimension_type *var*, ppl_const_Coefficient_t *n*) `[related]`

Adds `n` to the coefficient of variable `var` in the linear expression `le`. The space dimension is set to be the maximum between `var` + 1 and the old space dimension.

Definition at line 535 of file ppl_c_implementation_common.cc.

10.38.2.5 int ppl_Linear_Expression_add_to_inhomogeneous (ppl_Linear_Expression_t *le*, ppl_const_Coefficient_t *n*) [related]

Adds `n` to the inhomogeneous term of the linear expression `le`.

Definition at line 546 of file ppl_c_implementation_common.cc.

10.38.2.6 int ppl_Linear_Expression_all_homogeneous_terms_are_zero (ppl_const_Linear_Expression_t *le*) [related]

Returns `true` if and only if all the homogeneous terms of `*this` are 0.

Definition at line 628 of file ppl_c_implementation_common.cc.

10.38.2.7 int ppl_Linear_Expression_coefficient (ppl_const_Linear_Expression_t *le*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Copies into `n` the coefficient of variable `var` in the linear expression `le`.

Definition at line 594 of file ppl_c_implementation_common.cc.

10.38.2.8 int ppl_Linear_Expression_inhomogeneous_term (ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *n*) [related]

Copies into `n` the inhomogeneous term of linear expression `le`.

Definition at line 605 of file ppl_c_implementation_common.cc.

10.38.2.9 int ppl_Linear_Expression_is_zero (ppl_const_Linear_Expression_t *le*) [related]

Returns `true` if and only if `*this` is 0.

Definition at line 621 of file ppl_c_implementation_common.cc.

10.38.2.10 int ppl_Linear_Expression_OK (ppl_const_Linear_Expression_t *le*) [related]

Returns a positive integer if `le` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `le` is broken. Useful for debugging purposes.

Definition at line 615 of file ppl_c_implementation_common.cc.

10.38.2.11 int ppl_Linear_Expression_space_dimension (ppl_const_Linear_Expression_t *le*, ppl_dimension_type ∗ *m*) [related]

Writes to m the space dimension of le.

Definition at line 586 of file ppl_c_implementation_common.cc.

10.38.2.12 int ppl_multiply_Linear_Expression_by_Coefficient (ppl_Linear_Expression_t *le*, ppl_const_Coefficient_t *n*) [related]

Multiply the linear expression dst by n.

Definition at line 576 of file ppl_c_implementation_common.cc.

10.38.2.13 int ppl_new_Linear_Expression (ppl_Linear_Expression_t ∗ *ple*) [related]

Creates a new linear expression corresponding to the constant 0 in a zero-dimensional space; writes a handle for the new linear expression at address ple.

Definition at line 492 of file ppl_c_implementation_common.cc.

10.38.2.14 int ppl_new_Linear_Expression_from_Congruence (ppl_Linear_Expression_t ∗ *ple*, ppl_const_Congruence_t *c*) [related]

Builds a linear expression corresponding to congruence c; writes a handle for the newly created linear expression at address ple.

Definition at line 1366 of file ppl_c_implementation_common.cc.

10.38.2.15 int ppl_new_Linear_Expression_from_Constraint (ppl_Linear_Expression_t ∗ *ple*, ppl_const_Constraint_t *c*) [related]

Builds a linear expression corresponding to constraint c; writes a handle for the newly created linear expression at address ple.

Definition at line 757 of file ppl_c_implementation_common.cc.

10.38.2.16 int ppl_new_Linear_Expression_from_Generator (ppl_Linear_Expression_t ∗ *ple*, ppl_const_Generator_t *g*) [related]

Builds a linear expression corresponding to generator g; writes a handle for the newly created linear expression at address ple.

Definition at line 1079 of file ppl_c_implementation_common.cc.

10.38.2.17 int ppl_new_Linear_Expression_from_Grid_Generator (ppl_Linear_Expression_t * *ple*, ppl_const_Grid_Generator_t *g*) [related]

Builds a linear expression corresponding to grid generator `g`; writes a handle for the newly created linear expression at address `ple`.

10.38.2.18 int ppl_new_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t * *ple*, ppl_const_Linear_Expression_t *le*) [related]

Builds a linear expression that is a copy of `le`; writes a handle for the newly created linear expression at address `ple`.

Definition at line 510 of file ppl_c_implementation_common.cc.

10.38.2.19 int ppl_new_Linear_Expression_with_dimension (ppl_Linear_Expression_t * *ple*, ppl_dimension_type *d*) [related]

Creates a new linear expression corresponding to the constant 0 in a `d`-dimensional space; writes a handle for the new linear expression at address `ple`.

Definition at line 499 of file ppl_c_implementation_common.cc.

10.38.2.20 int ppl_subtract_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) [related]

Subtracts the linear expression `src` from `dst`.

Definition at line 567 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.39 ppl_Long_Double_Box_tag Interface Reference

Types and functions for ppl_Long_Double_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Long_Double_Box (ppl_const_Long_Double_Box_t ph)
- int ppl_new_Long_Double_Box_from_space_dimension (ppl_Long_Double_Box_t *pph, ppl_dimension_type d, int empty)

- int ppl_new_Long_Double_Box_from_Int8_Box (ppl_Long_Double_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Long_Double_Box_from_Int16_Box (ppl_Long_Double_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Long_Double_Box_from_Int32_Box (ppl_Long_Double_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Long_Double_Box_from_Int64_Box (ppl_Long_Double_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Long_Double_Box_from_Uint8_Box (ppl_Long_Double_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Long_Double_Box_from_Uint16_Box (ppl_Long_Double_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Long_Double_Box_from_Uint32_Box (ppl_Long_Double_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Long_Double_Box_from_Uint64_Box (ppl_Long_Double_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Long_Double_Box_from_Z_Box (ppl_Long_Double_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Long_Double_Box_from_Rational_Box (ppl_Long_Double_Box_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_int8_t (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_int16_t (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_int32_t (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_int64_t (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_mpz_class (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_mpq_class (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int8_t (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int16_t (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int32_t (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int64_t (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpz_class (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpq_class (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Long_Double_Box_from_C_Polyhedron (ppl_Long_Double_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Long_Double_Box_from_NNC_Polyhedron (ppl_Long_Double_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Long_Double_Box_from_Grid (ppl_Long_Double_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Long_Double_Box_from_Float_Box (ppl_Long_Double_Box_t *pph, ppl_const_Float_Box_t ph)

- int ppl_new_Long_Double_Box_from_BD_Shape_float (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_float (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Long_Double_Box_from_Double_Box (ppl_Long_Double_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_double (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_double (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Long_Double_Box_from_Long_Double_Box (ppl_Long_Double_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Long_Double_Box_from_BD_Shape_long_double (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_long_double (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Long_Double_Box_from_Int8_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Int16_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Int32_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Int64_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Uint8_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Uint16_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Uint32_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Uint64_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Z_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Rational_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_int8_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_int16_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_int32_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_int64_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)

- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Long_-Double_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Long_-Double_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_-Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_-Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_C_Polyhedron_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_NNC_Polyhedron_with_complexity (ppl_Long_Double_-Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Grid_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Float_Box_with_complexity (ppl_Long_Double_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_float_with_complexity (ppl_Long_Double_-Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_float_with_complexity (ppl_Long_-Double_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Double_Box_with_complexity (ppl_Long_Double_Box_-t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_double_with_complexity (ppl_Long_Double_-Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_double_with_complexity (ppl_Long_-Double_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Long_Double_Box_with_complexity (ppl_Long_Double_-Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_BD_Shape_long_double_with_complexity (ppl_Long_-Double_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_-Long_Double_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Long_Double_Box_from_Constraint_System (ppl_Long_Double_Box_t *pph, ppl_-const_Constraint_System_t cs)
- int ppl_new_Long_Double_Box_from_Congruence_System (ppl_Long_Double_Box_t *pph, ppl_-const_Congruence_System_t cs)
- int ppl_new_Long_Double_Box_from_Generator_System (ppl_Long_Double_Box_t *pph, ppl_-const_Generator_System_t cs)
- int ppl_Long_Double_Box_space_dimension (ppl_const_Long_Double_Box_t ph, ppl_-dimension_type *m)
- int ppl_Long_Double_Box_affine_dimension (ppl_const_Long_Double_Box_t ph, ppl_-dimension_type *m)
- int ppl_Long_Double_Box_relation_with_Constraint (ppl_const_Long_Double_Box_t ph, ppl_-const_Constraint_t c)
- int ppl_Long_Double_Box_relation_with_Generator (ppl_const_Long_Double_Box_t ph, ppl_-const_Generator_t c)
- int ppl_Long_Double_Box_relation_with_Congruence (ppl_const_Long_Double_Box_t ph, ppl_-const_Congruence_t c)
- int ppl_Long_Double_Box_get_constraints (ppl_const_Long_Double_Box_t ph, ppl_const_-Constraint_System_t *pcs)
- int ppl_Long_Double_Box_get_congruences (ppl_const_Long_Double_Box_t ph, ppl_const_-Congruence_System_t *pcs)

- int ppl_Long_Double_Box_get_minimized_constraints (ppl_const_Long_Double_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Long_Double_Box_get_minimized_congruences (ppl_const_Long_Double_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Long_Double_Box_is_empty (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_is_universe (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_is_bounded (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_contains_integer_point (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_is_topologically_closed (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_is_discrete (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_topological_closure_assign (ppl_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_bounds_from_above (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Long_Double_Box_bounds_from_below (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Long_Double_Box_maximize (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Long_Double_Box_minimize (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Long_Double_Box_maximize_with_point (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Long_Double_Box_minimize_with_point (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Long_Double_Box_frequency (ppl_const_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Long_Double_Box_contains_Long_Double_Box (ppl_const_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_strictly_contains_Long_Double_Box (ppl_const_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_is_disjoint_from_Long_Double_Box (ppl_const_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_equals_Long_Double_Box (ppl_const_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_OK (ppl_const_Long_Double_Box_t ph)
- int ppl_Long_Double_Box_add_constraint (ppl_Long_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Long_Double_Box_add_congruence (ppl_Long_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Long_Double_Box_add_constraints (ppl_Long_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Long_Double_Box_add_congruences (ppl_Long_Double_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Long_Double_Box_refine_with_constraint (ppl_Long_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Long_Double_Box_refine_with_congruence (ppl_Long_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Long_Double_Box_refine_with_constraints (ppl_Long_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Long_Double_Box_refine_with_congruences (ppl_Long_Double_Box_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Long_Double_Box_intersection_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_upper_bound_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_difference_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_concatenate_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_time_elapse_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_upper_bound_assign_if_exact (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_simplify_using_context_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_constrains (ppl_Long_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Long_Double_Box_unconstrain_space_dimension (ppl_Long_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Long_Double_Box_unconstrain_space_dimensions (ppl_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Long_Double_Box_affine_image (ppl_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_affine_preimage (ppl_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_bounded_affine_image (ppl_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_bounded_affine_preimage (ppl_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_generalized_affine_image (ppl_Long_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_generalized_affine_preimage (ppl_Long_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Long_Double_Box_generalized_affine_image_lhs_rhs (ppl_Long_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Long_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Long_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Long_Double_Box_add_space_dimensions_and_embed (ppl_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Long_Double_Box_add_space_dimensions_and_project (ppl_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Long_Double_Box_remove_space_dimensions (ppl_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Long_Double_Box_remove_higher_space_dimensions (ppl_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Long_Double_Box_expand_space_dimension (ppl_Long_Double_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)

- int ppl_Long_Double_Box_fold_space_dimensions (ppl_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Long_Double_Box_map_space_dimensions (ppl_Long_Double_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Long_Double_Box_drop_some_non_integer_points (ppl_Long_Double_Box_t ph, int complexity)
- int ppl_Long_Double_Box_drop_some_non_integer_points_2 (ppl_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Long_Double_Box_external_memory_in_bytes (ppl_const_Long_Double_Box_t ps, size_t ∗sz)
- int ppl_Long_Double_Box_total_memory_in_bytes (ppl_const_Long_Double_Box_t ps, size_t ∗sz)
- int ppl_Long_Double_Box_CC76_widening_assign_with_tokens (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y, unsigned ∗tp)
- int ppl_Long_Double_Box_CC76_widening_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_widening_assign_with_tokens (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y, unsigned ∗tp)
- int ppl_Long_Double_Box_widening_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y)
- int ppl_Long_Double_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Long_Double_Box_limited_CC76_extrapolation_assign (ppl_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Long_Double_Box_linear_partition (ppl_const_Long_Double_Box_t x, ppl_const_Long_Double_Box_t y, ppl_Long_Double_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Long_Double_Box_wrap_assign (ppl_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Long_Double_Box_recycle_Constraint_System (ppl_Long_Double_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Long_Double_Box_recycle_Congruence_System (ppl_Long_Double_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Long_Double_Box_recycle_Generator_System (ppl_Long_Double_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Long_Double_Box_from_Long_Double_Box (ppl_Long_Double_Box_t dst, ppl_const_Long_Double_Box_t src)
- int ppl_Long_Double_Box_add_recycled_constraints (ppl_Long_Double_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Long_Double_Box_add_recycled_congruences (ppl_Long_Double_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Long_Double_Box (ppl_const_Long_Double_Box_t pset)
- int ppl_termination_test_PR_Long_Double_Box (ppl_const_Long_Double_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Long_Double_Box (ppl_const_Long_Double_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Long_Double_Box (ppl_const_Long_Double_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Long_Double_Box (ppl_const_Long_Double_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Long_Double_Box (ppl_const_Long_Double_Box_t pset, ppl_Polyhedron_t ph)

- int ppl_termination_test_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_t pset_before, ppl_const_Long_Double_Box_t pset_after)
- int ppl_termination_test_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_t pset_before, ppl_const_Long_Double_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_-t pset_before, ppl_const_Long_Double_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_-t pset_before, ppl_const_Long_Double_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_-t pset_before, ppl_const_Long_Double_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_-t pset_before, ppl_const_Long_Double_Box_t pset_after, ppl_Polyhedron_t ph)

10.39.1 Detailed Description

Types and functions for ppl_Long_Double_Box_tag.

10.39.2 Friends And Related Function Documentation

10.39.2.1 int ppl_all_affine_ranking_functions_MS_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.39.2.2 int ppl_all_affine_ranking_functions_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.39.2.3 int ppl_all_affine_ranking_functions_PR_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.39.2.4 int ppl_all_affine_ranking_functions_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.39.2.5 int ppl_assign_Long_Double_Box_from_Long_Double_Box (ppl_Long_Double_Box_t *dst*, ppl_const_Long_Double_Box_t *src*) `[related]`

10.39.2.6 int ppl_delete_Long_Double_Box (ppl_const_Long_Double_Box_t *ph*) `[related]`

10.39.2.7 int ppl_Long_Double_Box_add_congruence (ppl_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.39.2.8 int ppl_Long_Double_Box_add_congruences (ppl_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.39.2.9 int ppl_Long_Double_Box_add_constraint (ppl_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.39.2.10 int ppl_Long_Double_Box_add_constraints (ppl_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.39.2.11 int ppl_Long_Double_Box_add_recycled_congruences (ppl_Long_Double_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.39.2.12 int ppl_Long_Double_Box_add_recycled_constraints (ppl_Long_Double_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.39.2.13 int ppl_Long_Double_Box_add_space_dimensions_and_embed (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.39.2.14 int ppl_Long_Double_Box_add_space_dimensions_and_project (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.39.2.15 int ppl_Long_Double_Box_affine_dimension (ppl_const_Long_Double_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.39.2.16 int ppl_Long_Double_Box_affine_image (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.39.2.17 int ppl_Long_Double_Box_affine_preimage (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.39.2.18 int ppl_Long_Double_Box_bounded_affine_image (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.39.2.19 int ppl_Long_Double_Box_bounded_affine_preimage (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.39.2.20 int ppl_Long_Double_Box_bounds_from_above (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.39.2.21 int ppl_Long_Double_Box_bounds_from_below (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.39.2.22 int ppl_Long_Double_Box_CC76_widening_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.23 int ppl_Long_Double_Box_CC76_widening_assign_with_tokens (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*, unsigned ∗ *tp*) [related]

10.39.2.24 int ppl_Long_Double_Box_concatenate_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.25 int ppl_Long_Double_Box_constrains (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.39.2.26 int ppl_Long_Double_Box_contains_integer_point (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.27 int ppl_Long_Double_Box_contains_Long_Double_Box (ppl_const_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.28 int ppl_Long_Double_Box_difference_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.29 int ppl_Long_Double_Box_drop_some_non_integer_points (ppl_Long_Double_Box_t *ph*, int *complexity*) [related]

10.39.2.30 int ppl_Long_Double_Box_drop_some_non_integer_points_2 (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.39.2.31 int ppl_Long_Double_Box_equals_Long_Double_Box (ppl_const_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.32 int ppl_Long_Double_Box_expand_space_dimension (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.39.2.33 int ppl_Long_Double_Box_external_memory_in_bytes (ppl_const_Long_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.39.2.34 int ppl_Long_Double_Box_fold_space_dimensions (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.39.2.35 int ppl_Long_Double_Box_frequency (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.39.2.36 int ppl_Long_Double_Box_generalized_affine_image (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.39.2.37 int ppl_Long_Double_Box_generalized_affine_image_lhs_rhs (ppl_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.39.2.38 int ppl_Long_Double_Box_generalized_affine_preimage (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.39.2.39 int ppl_Long_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.39.2.40 int ppl_Long_Double_Box_get_congruences (ppl_const_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.39.2.41 int ppl_Long_Double_Box_get_constraints (ppl_const_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.39.2.42 int ppl_Long_Double_Box_get_minimized_congruences (ppl_const_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.39.2.43 int ppl_Long_Double_Box_get_minimized_constraints (ppl_const_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.39.2.44 int ppl_Long_Double_Box_intersection_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.45 int ppl_Long_Double_Box_is_bounded (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.46 int ppl_Long_Double_Box_is_discrete (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.47 int ppl_Long_Double_Box_is_disjoint_from_Long_Double_Box (ppl_const_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.48 int ppl_Long_Double_Box_is_empty (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.49 int ppl_Long_Double_Box_is_topologically_closed (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.50 int ppl_Long_Double_Box_is_universe (ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.51 int ppl_Long_Double_Box_limited_CC76_extrapolation_assign (ppl_Long_Double_-Box_t *x*, ppl_const_Long_Double_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.39.2.52 int ppl_Long_Double_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.39.2.53 int ppl_Long_Double_Box_linear_partition (ppl_const_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*, ppl_Long_Double_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.39.2.54 int ppl_Long_Double_Box_map_space_dimensions (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.39.2.55 int ppl_Long_Double_Box_maximize (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.39.2.56 int ppl_Long_Double_Box_maximize_with_point (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.39.2.57 int ppl_Long_Double_Box_minimize (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.39.2.58 int ppl_Long_Double_Box_minimize_with_point (ppl_const_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.39.2.59 int ppl_Long_Double_Box_OK (ppl_const_Long_Double_Box_t *ph*) `[related]`

10.39.2.60 int ppl_Long_Double_Box_refine_with_congruence (ppl_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.39.2.61 int ppl_Long_Double_Box_refine_with_congruences (ppl_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.39.2.62 int ppl_Long_Double_Box_refine_with_constraint (ppl_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.39.2.63 int ppl_Long_Double_Box_refine_with_constraints (ppl_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.39.2.64 int ppl_Long_Double_Box_relation_with_Congruence (ppl_const_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.39.2.65 int ppl_Long_Double_Box_relation_with_Constraint (ppl_const_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.39.2.66 int ppl_Long_Double_Box_relation_with_Generator (ppl_const_Long_Double_Box_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.39.2.67 int ppl_Long_Double_Box_remove_higher_space_dimensions (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.39.2.68 int ppl_Long_Double_Box_remove_space_dimensions (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.39.2.69 int ppl_Long_Double_Box_simplify_using_context_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.70 int ppl_Long_Double_Box_space_dimension (ppl_const_Long_Double_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.39.2.71 int ppl_Long_Double_Box_strictly_contains_Long_Double_Box (ppl_const_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.72 int ppl_Long_Double_Box_time_elapse_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.73 int ppl_Long_Double_Box_topological_closure_assign (ppl_Long_Double_Box_t *ph*) [related]

10.39.2.74 int ppl_Long_Double_Box_total_memory_in_bytes (ppl_const_Long_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.39.2.75 int ppl_Long_Double_Box_unconstrain_space_dimension (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.39.2.76 int ppl_Long_Double_Box_unconstrain_space_dimensions (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.39.2.77 int ppl_Long_Double_Box_upper_bound_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.78 int ppl_Long_Double_Box_upper_bound_assign_if_exact (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.79 int ppl_Long_Double_Box_widening_assign (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*) [related]

10.39.2.80 int ppl_Long_Double_Box_widening_assign_with_tokens (ppl_Long_Double_Box_t *x*, ppl_const_Long_Double_Box_t *y*, unsigned ∗ *tp*) [related]

10.39.2.81 int ppl_Long_Double_Box_wrap_assign (ppl_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.39.2.82 int ppl_new_Long_Double_Box_from_BD_Shape_double (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.39.2.83 int ppl_new_Long_Double_Box_from_BD_Shape_double_with_complexity (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.39.2.84 int ppl_new_Long_Double_Box_from_BD_Shape_float (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.39.2.85 int ppl_new_Long_Double_Box_from_BD_Shape_float_with_complexity (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.39.2.86 int ppl_new_Long_Double_Box_from_BD_Shape_int16_t (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.39.2.87 int ppl_new_Long_Double_Box_from_BD_Shape_int16_t_with_complexity (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.39.2.88 int ppl_new_Long_Double_Box_from_BD_Shape_int32_t (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.39.2.89 int ppl_new_Long_Double_Box_from_BD_Shape_int32_t_with_complexity (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.39.2.90 int ppl_new_Long_Double_Box_from_BD_Shape_int64_t (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.39.2.91 int ppl_new_Long_Double_Box_from_BD_Shape_int64_t_with_complexity (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.39.2.92 int ppl_new_Long_Double_Box_from_BD_Shape_int8_t (ppl_Long_Double_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.39.2.93 int ppl_new_Long_Double_Box_from_BD_Shape_int8_t_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.39.2.94 int ppl_new_Long_Double_Box_from_BD_Shape_long_double (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.39.2.95 int ppl_new_Long_Double_Box_from_BD_Shape_long_double_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.39.2.96 int ppl_new_Long_Double_Box_from_BD_Shape_mpq_class (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.39.2.97 int ppl_new_Long_Double_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.39.2.98 int ppl_new_Long_Double_Box_from_BD_Shape_mpz_class (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.39.2.99 int ppl_new_Long_Double_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.39.2.100 int ppl_new_Long_Double_Box_from_C_Polyhedron (ppl_Long_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.39.2.101 int ppl_new_Long_Double_Box_from_C_Polyhedron_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.39.2.102 int ppl_new_Long_Double_Box_from_Congruence_System (ppl_Long_Double_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.39.2.103 int ppl_new_Long_Double_Box_from_Constraint_System (ppl_Long_Double_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.39.2.104 int ppl_new_Long_Double_Box_from_Double_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.39.2.105 int ppl_new_Long_Double_Box_from_Double_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.39.2.106 int ppl_new_Long_Double_Box_from_Float_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.39.2.107 int ppl_new_Long_Double_Box_from_Float_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.39.2.108 int ppl_new_Long_Double_Box_from_Generator_System (ppl_Long_Double_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.39.2.109 int ppl_new_Long_Double_Box_from_Grid (ppl_Long_Double_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.39.2.110 int ppl_new_Long_Double_Box_from_Grid_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.39.2.111 int ppl_new_Long_Double_Box_from_Int16_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.39.2.112 int ppl_new_Long_Double_Box_from_Int16_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.39.2.113 int ppl_new_Long_Double_Box_from_Int32_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.39.2.114 int ppl_new_Long_Double_Box_from_Int32_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.39.2.115 int ppl_new_Long_Double_Box_from_Int64_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.39.2.116 int ppl_new_Long_Double_Box_from_Int64_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.39.2.117 int ppl_new_Long_Double_Box_from_Int8_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.39.2.118 int ppl_new_Long_Double_Box_from_Int8_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.39.2.119 int ppl_new_Long_Double_Box_from_Long_Double_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.39.2.120 int ppl_new_Long_Double_Box_from_Long_Double_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.39.2.121 int ppl_new_Long_Double_Box_from_NNC_Polyhedron (ppl_Long_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.39.2.122 int ppl_new_Long_Double_Box_from_NNC_Polyhedron_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.39.2.123 int ppl_new_Long_Double_Box_from_Octagonal_Shape_double (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.39.2.124 int ppl_new_Long_Double_Box_from_Octagonal_Shape_double_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.39.2.125 int ppl_new_Long_Double_Box_from_Octagonal_Shape_float (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.39.2.126 int ppl_new_Long_Double_Box_from_Octagonal_Shape_float_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.39.2.127 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int16_t (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.39.2.128 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.39.2.129 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int32_t (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.39.2.130 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.39.2.131 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int64_t (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.39.2.132 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.39.2.133 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int8_t (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.39.2.134 int ppl_new_Long_Double_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.39.2.135 int ppl_new_Long_Double_Box_from_Octagonal_Shape_long_double (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.39.2.136 int ppl_new_Long_Double_Box_from_Octagonal_Shape_-long_double_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.39.2.137 int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpq_class (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.39.2.138 int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.39.2.139 int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpz_class (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.39.2.140 int ppl_new_Long_Double_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.39.2.141 int ppl_new_Long_Double_Box_from_Rational_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.39.2.142 int ppl_new_Long_Double_Box_from_Rational_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.39.2.143 int ppl_new_Long_Double_Box_from_space_dimension (ppl_Long_Double_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.39.2.144 int ppl_new_Long_Double_Box_from_Uint16_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.39.2.145 int ppl_new_Long_Double_Box_from_Uint16_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.39.2.146 int ppl_new_Long_Double_Box_from_Uint32_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.39.2.147 int ppl_new_Long_Double_Box_from_Uint32_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.39.2.148 int ppl_new_Long_Double_Box_from_Uint64_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.39.2.149 int ppl_new_Long_Double_Box_from_Uint64_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.39.2.150 int ppl_new_Long_Double_Box_from_Uint8_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.39.2.151 int ppl_new_Long_Double_Box_from_Uint8_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.39.2.152 int ppl_new_Long_Double_Box_from_Z_Box (ppl_Long_Double_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.39.2.153 int ppl_new_Long_Double_Box_from_Z_Box_with_complexity (ppl_Long_Double_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.39.2.154 int ppl_new_Long_Double_Box_recycle_Congruence_System (ppl_Long_Double_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.39.2.155 int ppl_new_Long_Double_Box_recycle_Constraint_System (ppl_Long_Double_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.39.2.156 int ppl_new_Long_Double_Box_recycle_Generator_System (ppl_Long_Double_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.39.2.157 int ppl_one_affine_ranking_function_MS_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*, ppl_Generator_t *point*) [related]

10.39.2.158 int ppl_one_affine_ranking_function_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.39.2.159 int ppl_one_affine_ranking_function_PR_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*, ppl_Generator_t *point*) [related]

10.39.2.160 int ppl_one_affine_ranking_function_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.39.2.161 int ppl_termination_test_MS_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*) [related]

10.39.2.162 int ppl_termination_test_MS_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*) [related]

10.39.2.163 int ppl_termination_test_PR_Long_Double_Box (ppl_const_Long_Double_Box_t *pset*) [related]

10.39.2.164 int ppl_termination_test_PR_Long_Double_Box_2 (ppl_const_Long_Double_Box_t *pset_before*, ppl_const_Long_Double_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.40 ppl_MIP_Problem_tag Interface Reference

Types and functions for MIP problems.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Symbolic Constants

- int PPL_OPTIMIZATION_MODE_MAXIMIZATION
  Code of the "maximization" optimization mode.
- int PPL_OPTIMIZATION_MODE_MINIMIZATION
  Code of the "minimization" optimization mode.
- int PPL_MIP_PROBLEM_STATUS_UNFEASIBLE
  Code of the "unfeasible MIP problem" status.
- int PPL_MIP_PROBLEM_STATUS_UNBOUNDED
  Code of the "unbounded MIP problem" status.
- int PPL_MIP_PROBLEM_STATUS_OPTIMIZED
  Code of the "optimized MIP problem" status.

- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_NAME_PRICING
  Code for the MIP problem's "pricing" control parameter name.
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_TEXTBOOK
  Code of MIP problem's "textbook" pricing method.
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_EDGE_-EXACT
  Code of MIP problem's "exact steepest-edge" pricing method.
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_EDGE_-FLOAT
  Code of MIP problem's "float steepest-edge" pricing method.

Constructors, Assignment and Destructor

- int ppl_new_MIP_Problem_from_space_dimension (ppl_MIP_Problem_t ∗pmip, ppl_-dimension_type d)
  Builds a trivial MIP problem of dimension `d` *and writes a handle to it at address* `pmip`.
- int ppl_new_MIP_Problem (ppl_MIP_Problem_t ∗pmip, ppl_dimension_type d, ppl_const_-Constraint_System_t cs, ppl_const_Linear_Expression_t le, int m)
  Builds a MIP problem of space dimension `d` *having feasible region* `cs`*, objective function* `le` *and optimization mode* `m`*; writes a handle to it at address* `pmip`.
- int ppl_new_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t ∗pmip, ppl_const_MIP_-Problem_t mip)
  Builds a MIP problem that is a copy of `mip`*; writes a handle for the newly created system at address* `pmip`.
- int ppl_assign_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t dst, ppl_const_MIP_-Problem_t src)
  Assigns a copy of the MIP problem `src` *to* `dst`.
- int ppl_delete_MIP_Problem (ppl_const_MIP_Problem_t mip)
  Invalidates the handle `mip`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the MIP_Problem

- int ppl_MIP_Problem_space_dimension (ppl_const_MIP_Problem_t mip, ppl_dimension_type ∗m)
  Writes to `m` *the dimension of the vector space enclosing* `mip`.
- int ppl_MIP_Problem_number_of_integer_space_dimensions (ppl_const_MIP_Problem_t mip, ppl_dimension_type ∗m)
  Writes to `m` *the number of integer space dimensions of* `mip`.
- int ppl_MIP_Problem_integer_space_dimensions (ppl_const_MIP_Problem_t mip, ppl_-dimension_type ds[ ])
  Writes in the first positions of the array `ds` *all the integer space dimensions of problem* `mip`*. If the array is not big enough to hold all of the integer space dimensions, the behavior is undefined.*

- int ppl_MIP_Problem_number_of_constraints (ppl_const_MIP_Problem_t mip, ppl_dimension_type *m)

  Writes to `m` *the number of constraints defining the feasible region of* `mip`*.*

- int ppl_MIP_Problem_constraint_at_index (ppl_const_MIP_Problem_t mip, ppl_dimension_type i, ppl_const_Constraint_t *pc)

  Writes at address `pc` *a const handle to the* `i-th` *constraint defining the feasible region of the MIP problem* `mip`*.*

- int ppl_MIP_Problem_objective_function (ppl_const_MIP_Problem_t mip, ppl_const_Linear_Expression_t *ple)

  Writes a const handle to the linear expression defining the objective function of the MIP problem `mip` *at address* `ple`*.*

- int ppl_MIP_Problem_optimization_mode (ppl_const_MIP_Problem_t mip)

  Returns the optimization mode of the MIP problem `mip`*.*

- int ppl_MIP_Problem_OK (ppl_const_MIP_Problem_t mip)

  Returns a positive integer if `mip` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `mip` *is broken. Useful for debugging purposes.*

Functions that May Modify the MIP_Problem

- int ppl_MIP_Problem_clear (ppl_MIP_Problem_t mip)

  Resets the MIP problem to be a trivial problem of space dimension 0.

- int ppl_MIP_Problem_add_space_dimensions_and_embed (ppl_MIP_Problem_t mip, ppl_dimension_type d)

  Adds `d` *new dimensions to the space enclosing the MIP problem* `mip` *and to* `mip` *itself.*

- int ppl_MIP_Problem_add_to_integer_space_dimensions (ppl_MIP_Problem_t mip, ppl_dimension_type ds[ ], size_t n)

  Sets the space dimensions that are specified in first `n` *positions of the array* `ds` *to be integer dimensions of problem* `mip`*. The presence of duplicates in* `ds` *is a waste but an innocuous one.*

- int ppl_MIP_Problem_add_constraint (ppl_MIP_Problem_t mip, ppl_const_Constraint_t c)

  Modifies the feasible region of the MIP problem `mip` *by adding a copy of the constraint* `c`*.*

- int ppl_MIP_Problem_add_constraints (ppl_MIP_Problem_t mip, ppl_const_Constraint_System_t cs)

  Modifies the feasible region of the MIP problem `mip` *by adding a copy of the constraints in* `cs`*.*

- int ppl_MIP_Problem_set_objective_function (ppl_MIP_Problem_t mip, ppl_const_Linear_Expression_t le)

  Sets the objective function of the MIP problem `mip` *to a copy of* `le`*.*

- int ppl_MIP_Problem_set_optimization_mode (ppl_MIP_Problem_t mip, int mode)

  Sets the optimization mode of the MIP problem `mip` *to* `mode`*.*

Computing the Solution of the MIP_Problem

- int ppl_MIP_Problem_is_satisfiable (ppl_const_MIP_Problem_t mip)

  Returns a positive integer if `mip` *is satisfiable; returns 0 otherwise.*

- int ppl_MIP_Problem_solve (ppl_const_MIP_Problem_t mip)
  Solves the MIP problem `mip`*, returning an exit status.*
- int ppl_MIP_Problem_evaluate_objective_function (ppl_const_MIP_Problem_t mip, ppl_const_-Generator_t g, ppl_Coefficient_t num, ppl_Coefficient_t den)
  Evaluates the objective function of `mip` *on point* `g`*.*
- int ppl_MIP_Problem_feasible_point (ppl_const_MIP_Problem_t mip, ppl_const_Generator_-t ∗pg)
  Writes a const handle to a feasible point for the MIP problem `mip` *at address* `pg`*.*
- int ppl_MIP_Problem_optimizing_point (ppl_const_MIP_Problem_t mip, ppl_const_-Generator_t ∗pg)
  Writes a const handle to an optimizing point for the MIP problem `mip` *at address* `pg`*.*
- int ppl_MIP_Problem_optimal_value (ppl_const_MIP_Problem_t mip, ppl_Coefficient_t num, ppl_Coefficient_t den)
  Returns the optimal value for `mip`*.*

Querying/Setting Control Parameters

- int ppl_MIP_Problem_get_control_parameter (ppl_const_MIP_Problem_t mip, int name)
  Returns the value of control parameter `name` *in problem* `mip`*.*
- int ppl_MIP_Problem_set_control_parameter (ppl_MIP_Problem_t mip, int value)
  Sets control parameter `value` *in problem* `mip`*.*
- int ppl_MIP_Problem_total_memory_in_bytes (ppl_const_MIP_Problem_t mip, size_t ∗sz)
  Writes into `∗sz` *the size in bytes of the memory occupied by* `mip`*.*
- int ppl_MIP_Problem_external_memory_in_bytes (ppl_const_MIP_Problem_t mip, size_t ∗sz)
  Writes into `∗sz` *the size in bytes of the memory managed by* `mip`*.*

10.40.1 Detailed Description

Types and functions for MIP problems. The types and functions for MIP problems provide an interface towards *MIP_Problem*.

10.40.2 Friends And Related Function Documentation

10.40.2.1 int ppl_assign_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t *dst*, ppl_const_MIP_Problem_t *src*) `[related]`

Assigns a copy of the MIP problem `src` to `dst`.

Definition at line 1902 of file ppl_c_implementation_common.cc.

10.40.2.2 int ppl_delete_MIP_Problem (ppl_const_MIP_Problem_t *mip*) [related]

Invalidates the handle `mip`: this makes sure the corresponding resources will eventually be released.

Definition at line 1895 of file ppl_c_implementation_common.cc.

10.40.2.3 int ppl_MIP_Problem_add_constraint (ppl_MIP_Problem_t *mip*, ppl_const_Constraint_t *c*) [related]

Modifies the feasible region of the MIP problem `mip` by adding a copy of the constraint `c`.

Definition at line 2010 of file ppl_c_implementation_common.cc.

10.40.2.4 int ppl_MIP_Problem_add_constraints (ppl_MIP_Problem_t *mip*, ppl_const_Constraint_System_t *cs*) [related]

Modifies the feasible region of the MIP problem `mip` by adding a copy of the constraints in `cs`.

Definition at line 2020 of file ppl_c_implementation_common.cc.

10.40.2.5 int ppl_MIP_Problem_add_space_dimensions_and_embed (ppl_MIP_Problem_t *mip*, ppl_dimension_type *d*) [related]

Adds `d` new dimensions to the space enclosing the MIP problem `mip` and to `mip` itself.

Definition at line 1988 of file ppl_c_implementation_common.cc.

10.40.2.6 int ppl_MIP_Problem_add_to_integer_space_dimensions (ppl_MIP_Problem_t *mip*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

Sets the space dimensions that are specified in first `n` positions of the array `ds` to be integer dimensions of problem `mip`. The presence of duplicates in `ds` is a waste but an innocuous one.

Definition at line 1997 of file ppl_c_implementation_common.cc.

10.40.2.7 int ppl_MIP_Problem_clear (ppl_MIP_Problem_t *mip*) [related]

Resets the MIP problem to be a trivial problem of space dimension 0.

Definition at line 1981 of file ppl_c_implementation_common.cc.

10.40.2.8 int ppl_MIP_Problem_constraint_at_index (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type *i*, ppl_const_Constraint_t * *pc*) `[related]`

Writes at address `pc` a const handle to the `i-th` constraint defining the feasible region of the MIP problem `mip`.

Definition at line 1950 of file ppl_c_implementation_common.cc.

10.40.2.9 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_NAME_PRICING `[related]`

Code for the MIP problem's "pricing" control parameter name.

Definition at line 2471 of file ppl_c.h.

10.40.2.10 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_-EDGE_EXACT `[related]`

Code of MIP problem's "exact steepest-edge" pricing method.

Definition at line 2481 of file ppl_c.h.

10.40.2.11 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_-EDGE_FLOAT `[related]`

Code of MIP problem's "float steepest-edge" pricing method.

Definition at line 2486 of file ppl_c.h.

10.40.2.12 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_TEXTBOOK `[related]`

Code of MIP problem's "textbook" pricing method.

Definition at line 2476 of file ppl_c.h.

10.40.2.13 int ppl_MIP_Problem_evaluate_objective_function (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t *g*, ppl_Coefficient_t *num*, ppl_Coefficient_t *den*) `[related]`

Evaluates the objective function of `mip` on point `g`.

Parameters

mip The MIP problem defining the objective function;

g The generator on which the objective function will be evaluated;
num Will be assigned the numerator of the objective function value;
den Will be assigned the denominator of the objective function value;

Definition at line 2062 of file ppl_c_implementation_common.cc.

10.40.2.14 int ppl_MIP_Problem_external_memory_in_bytes (ppl_const_MIP_Problem_t *mip*, size_t ∗ *sz*) `[related]`

Writes into `*sz` the size in bytes of the memory managed by `mip`.

Definition at line 2138 of file ppl_c_implementation_common.cc.

10.40.2.15 int ppl_MIP_Problem_feasible_point (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t ∗ *pg*) `[related]`

Writes a const handle to a feasible point for the MIP problem `mip` at address `pg`.

Definition at line 2076 of file ppl_c_implementation_common.cc.

10.40.2.16 int ppl_MIP_Problem_get_control_parameter (ppl_const_MIP_Problem_t *mip*, int *name*) `[related]`

Returns the value of control parameter `name` in problem `mip`.

Definition at line 2105 of file ppl_c_implementation_common.cc.

10.40.2.17 int ppl_MIP_Problem_integer_space_dimensions (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type *ds*[ ]) `[related]`

Writes in the first positions of the array `ds` all the integer space dimensions of problem `mip`. If the array is not big enough to hold all of the integer space dimensions, the behavior is undefined.

Definition at line 1929 of file ppl_c_implementation_common.cc.

10.40.2.18 int ppl_MIP_Problem_is_satisfiable (ppl_const_MIP_Problem_t *mip*) `[related]`

Returns a positive integer if `mip` is satisfiable; returns 0 otherwise.

Definition at line 2050 of file ppl_c_implementation_common.cc.

10.40.2.19 int ppl_MIP_Problem_number_of_constraints (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type ∗ *m*) `[related]`

Writes to `m` the number of constraints defining the feasible region of `mip`.

Definition at line 1941 of file ppl_c_implementation_common.cc.

Referenced by ppl_MIP_Problem_constraint_at_index().

10.40.2.20 int ppl_MIP_Problem_number_of_integer_space_dimensions (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type ∗ *m*) [related]

Writes to `m` the number of integer space dimensions of `mip`.

Definition at line 1920 of file ppl_c_implementation_common.cc.

10.40.2.21 int ppl_MIP_Problem_objective_function (ppl_const_MIP_Problem_t *mip*, ppl_const_Linear_Expression_t ∗ *ple*) [related]

Writes a const handle to the linear expression defining the objective function of the MIP problem `mip` at address `ple`.

Definition at line 1966 of file ppl_c_implementation_common.cc.

10.40.2.22 int ppl_MIP_Problem_OK (ppl_const_MIP_Problem_t *mip*) [related]

Returns a positive integer if `mip` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `mip` is broken. Useful for debugging purposes.

Definition at line 2124 of file ppl_c_implementation_common.cc.

10.40.2.23 int ppl_MIP_Problem_optimal_value (ppl_const_MIP_Problem_t *mip*, ppl_Coefficient_t *num*, ppl_Coefficient_t *den*) [related]

Returns the optimal value for `mip`.

Parameters

mip The MIP problem;

num Will be assigned the numerator of the optimal value;

den Will be assigned the denominator of the optimal value.

Definition at line 2094 of file ppl_c_implementation_common.cc.

10.40.2.24 int ppl_MIP_Problem_optimization_mode (ppl_const_MIP_Problem_t *mip*) [related]

Returns the optimization mode of the MIP problem `mip`.

Definition at line 1975 of file ppl_c_implementation_common.cc.

10.40.2.25 int ppl_MIP_Problem_optimizing_point (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t * *pg*) [related]

Writes a const handle to an optimizing point for the MIP problem mip at address pg.

Definition at line 2085 of file ppl_c_implementation_common.cc.

10.40.2.26 int ppl_MIP_Problem_set_control_parameter (ppl_MIP_Problem_t *mip*, int *value*) [related]

Sets control parameter value in problem mip.

Definition at line 2114 of file ppl_c_implementation_common.cc.

10.40.2.27 int ppl_MIP_Problem_set_objective_function (ppl_MIP_Problem_t *mip*, ppl_const_Linear_Expression_t *le*) [related]

Sets the objective function of the MIP problem mip to a copy of le.

Definition at line 2030 of file ppl_c_implementation_common.cc.

10.40.2.28 int ppl_MIP_Problem_set_optimization_mode (ppl_MIP_Problem_t *mip*, int *mode*) [related]

Sets the optimization mode of the MIP problem mip to mode.

Definition at line 2040 of file ppl_c_implementation_common.cc.

10.40.2.29 int ppl_MIP_Problem_solve (ppl_const_MIP_Problem_t *mip*) [related]

Solves the MIP problem mip, returning an exit status.

Returns

PPL_MIP_PROBLEM_STATUS_UNFEASIBLE if the MIP problem is not satisfiable; PPL_MIP_PROBLEM_STATUS_UNBOUNDED if the MIP problem is satisfiable but there is no finite bound to the value of the objective function; PPL_MIP_PROBLEM_STATUS_OPTIMIZED if the MIP problem admits an optimal solution.

Definition at line 2056 of file ppl_c_implementation_common.cc.

10.40.2.30 int ppl_MIP_Problem_space_dimension (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type * *m*) [related]

Writes to m the dimension of the vector space enclosing mip.

Definition at line 1912 of file ppl_c_implementation_common.cc.

10.40.2.31 int PPL_MIP_PROBLEM_STATUS_OPTIMIZED [related]

Code of the "optimized MIP problem" status.

Definition at line 2466 of file ppl_c.h.

10.40.2.32 int PPL_MIP_PROBLEM_STATUS_UNBOUNDED [related]

Code of the "unbounded MIP problem" status.

Definition at line 2461 of file ppl_c.h.

10.40.2.33 int PPL_MIP_PROBLEM_STATUS_UNFEASIBLE [related]

Code of the "unfeasible MIP problem" status.

Definition at line 2456 of file ppl_c.h.

10.40.2.34 int ppl_MIP_Problem_total_memory_in_bytes (ppl_const_MIP_Problem_t *mip*, size_t ∗ *sz*) [related]

Writes into ∗sz the size in bytes of the memory occupied by mip.

Definition at line 2130 of file ppl_c_implementation_common.cc.

10.40.2.35 int ppl_new_MIP_Problem (ppl_MIP_Problem_t ∗ *pmip*, ppl_dimension_type *d*, ppl_const_Constraint_System_t *cs*, ppl_const_Linear_Expression_t *le*, int *m*) [related]

Builds a MIP problem of space dimension d having feasible region cs, objective function le and optimization mode m; writes a handle to it at address pmip.

Definition at line 1872 of file ppl_c_implementation_common.cc.

10.40.2.36 int ppl_new_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t ∗ *pmip*, ppl_const_MIP_Problem_t *mip*) [related]

Builds a MIP problem that is a copy of mip; writes a handle for the newly created system at address pmip.

Definition at line 1886 of file ppl_c_implementation_common.cc.

10.40.2.37 int ppl_new_MIP_Problem_from_space_dimension (ppl_MIP_Problem_t ∗ *pmip*, ppl_dimension_type *d*) [related]

Builds a trivial MIP problem of dimension d and writes a handle to it at address pmip.

Definition at line 1864 of file ppl_c_implementation_common.cc.

10.40.2.38 int PPL_OPTIMIZATION_MODE_MAXIMIZATION [related]

Code of the "maximization" optimization mode.

Definition at line 2446 of file ppl_c.h.

10.40.2.39 int PPL_OPTIMIZATION_MODE_MINIMIZATION [related]

Code of the "minimization" optimization mode.

Definition at line 2451 of file ppl_c.h.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.41 ppl_Octagonal_Shape_double_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_double_from_space_dimension (ppl_Octagonal_Shape_double_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_double_from_Int8_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Int16_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Int32_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Int64_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Uint8_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Uint16_Box (ppl_Octagonal_Shape_double_t ∗pph, ppl_const_Uint16_Box_t ph)

- int ppl_new_Octagonal_Shape_double_from_Uint32_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Uint64_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Z_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_Rational_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int8_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int16_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int32_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int64_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_double_from_C_Polyhedron (ppl_Octagonal_Shape_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_double_from_NNC_Polyhedron (ppl_Octagonal_Shape_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_double_from_Grid (ppl_Octagonal_Shape_double_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_double_from_Float_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_float (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_float (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_double_from_Double_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_double (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_double_from_Long_Double_Box (ppl_Octagonal_Shape_double_t *pph, ppl_const_Long_Double_Box_t ph)

- int ppl_new_Octagonal_Shape_double_from_BD_Shape_long_double (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_double_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Z_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)

- int ppl_new_Octagonal_Shape_double_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Grid_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Float_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Double_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_double_from_Constraint_System (ppl_Octagonal_Shape_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_double_from_Congruence_System (ppl_Octagonal_Shape_double_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_double_from_Generator_System (ppl_Octagonal_Shape_double_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_double_space_dimension (ppl_const_Octagonal_Shape_double_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_double_affine_dimension (ppl_const_Octagonal_Shape_double_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_double_relation_with_Constraint (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_double_relation_with_Generator (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_double_relation_with_Congruence (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_double_get_constraints (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_double_get_congruences (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_double_get_minimized_constraints (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_double_get_minimized_congruences (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_double_is_empty (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_is_universe (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_is_bounded (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_contains_integer_point (ppl_const_Octagonal_Shape_double_t ph)

- int ppl_Octagonal_Shape_double_is_topologically_closed (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_is_discrete (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_topological_closure_assign (ppl_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_bounds_from_above (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_double_bounds_from_below (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_double_maximize (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Octagonal_Shape_double_minimize (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Octagonal_Shape_double_maximize_with_point (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_double_minimize_with_point (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_double_frequency (ppl_const_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_double_contains_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_strictly_contains_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_is_disjoint_from_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_equals_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_OK (ppl_const_Octagonal_Shape_double_t ph)
- int ppl_Octagonal_Shape_double_add_constraint (ppl_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_double_add_congruence (ppl_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_double_add_constraints (ppl_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_double_add_congruences (ppl_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_double_refine_with_constraint (ppl_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_double_refine_with_congruence (ppl_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_double_refine_with_constraints (ppl_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_double_refine_with_congruences (ppl_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_double_intersection_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_upper_bound_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_difference_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)

- int ppl_Octagonal_Shape_double_concatenate_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_time_elapse_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_upper_bound_assign_if_exact (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_simplify_using_context_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_constrains (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_double_unconstrain_space_dimension (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_double_unconstrain_space_dimensions (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_double_affine_image (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_affine_preimage (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_bounded_affine_image (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_bounded_affine_preimage (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_generalized_affine_image (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_generalized_affine_preimage (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_double_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_double_add_space_dimensions_and_embed (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_double_add_space_dimensions_and_project (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_double_remove_space_dimensions (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_double_remove_higher_space_dimensions (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_double_expand_space_dimension (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_double_fold_space_dimensions (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_double_map_space_dimensions (ppl_Octagonal_Shape_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_double_drop_some_non_integer_points (ppl_Octagonal_Shape_double_t ph, int complexity)

- int ppl_Octagonal_Shape_double_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_-double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_double_external_memory_in_bytes (ppl_const_Octagonal_Shape_-double_t ps, size_t *sz)
- int ppl_Octagonal_Shape_double_total_memory_in_bytes (ppl_const_Octagonal_Shape_double_-t ps, size_t *sz)
- int ppl_Octagonal_Shape_double_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_-Shape_double_t x, ppl_const_Octagonal_Shape_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_double_BHMZ05_widening_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_widening_assign_with_tokens (ppl_Octagonal_Shape_double_-t x, ppl_const_Octagonal_Shape_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_double_widening_assign (ppl_Octagonal_Shape_double_t x, ppl_const_-Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_-Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y, ppl_const_Constraint_-System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_double_limited_CC76_extrapolation_assign_with_tokens (ppl_-Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y, ppl_const_Constraint_-System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_double_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_-Shape_double_t x, ppl_const_Octagonal_Shape_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_double_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_-double_t x, ppl_const_Octagonal_Shape_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_double_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_-Shape_double_t x, ppl_const_Octagonal_Shape_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_double_CC76_extrapolation_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_CC76_narrowing_assign (ppl_Octagonal_Shape_double_t x, ppl_const_Octagonal_Shape_double_t y)
- int ppl_Octagonal_Shape_double_linear_partition (ppl_const_Octagonal_Shape_double_t x, ppl_-const_Octagonal_Shape_double_t y, ppl_Octagonal_Shape_double_t *p_inters, ppl_Pointset_-Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Octagonal_Shape_double_wrap_assign (ppl_Octagonal_Shape_double_t ph, ppl_-dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_-enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_-Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_double_recycle_Constraint_System (ppl_Octagonal_Shape_-double_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_double_recycle_Congruence_System (ppl_Octagonal_Shape_-double_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_double_recycle_Generator_System (ppl_Octagonal_Shape_-double_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_-double_t dst, ppl_const_Octagonal_Shape_double_t src)
- int ppl_Octagonal_Shape_double_add_recycled_constraints (ppl_Octagonal_Shape_double_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_double_add_recycled_congruences (ppl_Octagonal_Shape_double_t ph, ppl_Congruence_System_t cs)

- int ppl_termination_test_MS_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_double (ppl_const_Octagonal_-Shape_double_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_-double_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_double (ppl_const_Octagonal_-Shape_double_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_-double_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_double_2 (ppl_const_Octagonal_Shape_double_-t pset_before, ppl_const_Octagonal_Shape_double_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_double_2 (ppl_const_Octagonal_Shape_double_-t pset_before, ppl_const_Octagonal_Shape_double_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_double_2 (ppl_const_Octagonal_-Shape_double_t pset_before, ppl_const_Octagonal_Shape_double_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_double_2 (ppl_const_Octagonal_-Shape_double_t pset_before, ppl_const_Octagonal_Shape_double_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_double_2 (ppl_const_Octagonal_-Shape_double_t pset_before, ppl_const_Octagonal_Shape_double_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_double_2 (ppl_const_Octagonal_-Shape_double_t pset_before, ppl_const_Octagonal_Shape_double_t pset_after, ppl_Polyhedron_t ph)

10.41.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_double_tag.

10.41.2 Friends And Related Function Documentation

10.41.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.41.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_double_2 (ppl_const_-Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.41.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.41.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_double_2 (ppl_const_Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.41.2.5 int ppl_assign_Octagonal_Shape_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_double_t *dst*, ppl_const_Octagonal_Shape_double_t *src*) [related]

10.41.2.6 int ppl_delete_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.7 int ppl_new_Octagonal_Shape_double_from_BD_Shape_double (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.41.2.8 int ppl_new_Octagonal_Shape_double_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.41.2.9 int ppl_new_Octagonal_Shape_double_from_BD_Shape_float (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.41.2.10 int ppl_new_Octagonal_Shape_double_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.41.2.11 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int16_t (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.41.2.12 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.41.2.13 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int32_t (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.41.2.14 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.41.2.15 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int64_t (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.41.2.16 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.41.2.17 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int8_t (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.41.2.18 int ppl_new_Octagonal_Shape_double_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.41.2.19 int ppl_new_Octagonal_Shape_double_from_BD_Shape_long_double (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.41.2.20 int ppl_new_Octagonal_Shape_double_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.41.2.21 int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.41.2.22 int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.41.2.23 int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.41.2.24 int ppl_new_Octagonal_Shape_double_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.41.2.25 int ppl_new_Octagonal_Shape_double_from_C_Polyhedron (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.41.2.26 int ppl_new_Octagonal_Shape_double_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.41.2.27 int ppl_new_Octagonal_Shape_double_from_Congruence_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.41.2.28 int ppl_new_Octagonal_Shape_double_from_Constraint_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.41.2.29 int ppl_new_Octagonal_Shape_double_from_Double_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.41.2.30 int ppl_new_Octagonal_Shape_double_from_Double_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.41.2.31 int ppl_new_Octagonal_Shape_double_from_Float_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.41.2.32 int ppl_new_Octagonal_Shape_double_from_Float_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.41.2.33 int ppl_new_Octagonal_Shape_double_from_Generator_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.41.2.34 int ppl_new_Octagonal_Shape_double_from_Grid (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.41.2.35 int ppl_new_Octagonal_Shape_double_from_Grid_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.41.2.36 int ppl_new_Octagonal_Shape_double_from_Int16_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.41.2.37 int ppl_new_Octagonal_Shape_double_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.41.2.38 int ppl_new_Octagonal_Shape_double_from_Int32_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.41.2.39 int ppl_new_Octagonal_Shape_double_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.41.2.40 int ppl_new_Octagonal_Shape_double_from_Int64_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.41.2.41 int ppl_new_Octagonal_Shape_double_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.41.2.42 int ppl_new_Octagonal_Shape_double_from_Int8_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.41.2.43 int ppl_new_Octagonal_Shape_double_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.41.2.44 int ppl_new_Octagonal_Shape_double_from_Long_Double_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.41.2.45 int ppl_new_Octagonal_Shape_double_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.41.2.46 int ppl_new_Octagonal_Shape_double_from_NNC_Polyhedron (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.41.2.47 int ppl_new_Octagonal_Shape_double_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.41.2.48 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.49 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-double_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.41.2.50 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_float (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.41.2.51 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.41.2.52 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.41.2.53 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.41.2.54 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.41.2.55 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.41.2.56 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.41.2.57 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.41.2.58 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.41.2.59 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.41.2.60 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.41.2.61 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.41.2.62 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.41.2.63 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.41.2.64 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.41.2.65 int ppl_new_Octagonal_Shape_double_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.41.2.66 int ppl_new_Octagonal_Shape_double_from_Rational_Box (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.41.2.67 int ppl_new_Octagonal_Shape_double_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.41.2.68 int ppl_new_Octagonal_Shape_double_from_space_dimension (ppl_Octagonal_Shape_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.41.2.69 int ppl_new_Octagonal_Shape_double_from_Uint16_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.41.2.70 int ppl_new_Octagonal_Shape_double_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.41.2.71 int ppl_new_Octagonal_Shape_double_from_Uint32_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.41.2.72 int ppl_new_Octagonal_Shape_double_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.41.2.73 int ppl_new_Octagonal_Shape_double_from_Uint64_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.41.2.74 int ppl_new_Octagonal_Shape_double_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.41.2.75 int ppl_new_Octagonal_Shape_double_from_Uint8_Box (ppl_-Octagonal_Shape_double_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.41.2.76 int ppl_new_Octagonal_Shape_double_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.41.2.77 int ppl_new_Octagonal_Shape_double_from_Z_Box (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.41.2.78 int ppl_new_Octagonal_Shape_double_from_Z_Box_with_complexity (ppl_Octagonal_Shape_double_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.41.2.79 int ppl_new_Octagonal_Shape_double_recycle_Congruence_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.41.2.80 int ppl_new_Octagonal_Shape_double_recycle_Constraint_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.41.2.81 int ppl_new_Octagonal_Shape_double_recycle_Generator_System (ppl_Octagonal_Shape_double_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.41.2.82 int ppl_Octagonal_Shape_double_add_congruence (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.41.2.83 int ppl_Octagonal_Shape_double_add_congruences (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.41.2.84 int ppl_Octagonal_Shape_double_add_constraint (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.41.2.85 int ppl_Octagonal_Shape_double_add_constraints (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.41.2.86 int ppl_Octagonal_Shape_double_add_recycled_congruences (ppl_Octagonal_Shape_double_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.41.2.87 int ppl_Octagonal_Shape_double_add_recycled_constraints (ppl_Octagonal_Shape_double_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.41.2.88 int ppl_Octagonal_Shape_double_add_space_dimensions_and_embed (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.41.2.89 int ppl_Octagonal_Shape_double_add_space_dimensions_and_project (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.41.2.90 int ppl_Octagonal_Shape_double_affine_dimension (ppl_const_Octagonal_Shape_double_t *ph*, ppl_dimension_type * *m*) [related]

10.41.2.91 int ppl_Octagonal_Shape_double_affine_image (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.41.2.92 int ppl_Octagonal_Shape_double_affine_preimage (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.41.2.93 int ppl_Octagonal_Shape_double_BHMZ05_widening_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.94 int ppl_Octagonal_Shape_double_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, unsigned ∗ *tp*) [related]

10.41.2.95 int ppl_Octagonal_Shape_double_bounded_affine_image (ppl_Octagonal_-Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.41.2.96 int ppl_Octagonal_Shape_double_bounded_affine_preimage (ppl_Octagonal_-Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.41.2.97 int ppl_Octagonal_Shape_double_bounds_from_above (ppl_const_-Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.41.2.98 int ppl_Octagonal_Shape_double_bounds_from_below (ppl_const_-Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.41.2.99 int ppl_Octagonal_Shape_double_CC76_extrapolation_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.100 int ppl_Octagonal_Shape_double_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, unsigned ∗ *tp*) [related]

10.41.2.101 int ppl_Octagonal_Shape_double_CC76_narrowing_assign (ppl_-Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.102 int ppl_Octagonal_Shape_double_concatenate_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.103 int ppl_Octagonal_Shape_double_constrains (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.41.2.104 int ppl_Octagonal_Shape_double_contains_integer_point (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.105 int ppl_Octagonal_Shape_double_contains_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.106 int ppl_Octagonal_Shape_double_difference_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.107 int ppl_Octagonal_Shape_double_drop_some_non_integer_points (ppl_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.41.2.108 int ppl_Octagonal_Shape_double_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.41.2.109 int ppl_Octagonal_Shape_double_equals_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.110 int ppl_Octagonal_Shape_double_expand_space_dimension (ppl_Octagonal_-Shape_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.41.2.111 int ppl_Octagonal_Shape_double_external_memory_in_bytes (ppl_const_Octagonal_Shape_double_t *ps*, size_t ∗ *sz*) [related]

10.41.2.112 int ppl_Octagonal_Shape_double_fold_space_dimensions (ppl_Octagonal_-Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.41.2.113 int ppl_Octagonal_Shape_double_frequency (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.41.2.114 int ppl_Octagonal_Shape_double_generalized_affine_image (ppl_Octagonal_Shape_-double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.41.2.115 int ppl_Octagonal_Shape_double_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.41.2.116 int ppl_Octagonal_Shape_double_generalized_affine_preimage (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.41.2.117 int ppl_Octagonal_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.41.2.118 int ppl_Octagonal_Shape_double_get_congruences (ppl_const_-Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.41.2.119 int ppl_Octagonal_Shape_double_get_constraints (ppl_const_-Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.41.2.120 int ppl_Octagonal_Shape_double_get_minimized_congruences (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.41.2.121 int ppl_Octagonal_Shape_double_get_minimized_constraints (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.41.2.122 int ppl_Octagonal_Shape_double_intersection_assign (ppl_Octagonal_-Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.123 int ppl_Octagonal_Shape_double_is_bounded (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.124 int ppl_Octagonal_Shape_double_is_discrete (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.125 int ppl_Octagonal_Shape_double_is_disjoint_from_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.126 int ppl_Octagonal_Shape_double_is_empty (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.127 int ppl_Octagonal_Shape_double_is_topologically_closed (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.128 int ppl_Octagonal_Shape_double_is_universe (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.129 int ppl_Octagonal_Shape_double_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.41.2.130 int ppl_Octagonal_Shape_double_limited_BHMZ05_extrapolation_assign_with_-tokens (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.41.2.131 int ppl_Octagonal_Shape_double_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.41.2.132 int ppl_Octagonal_Shape_double_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.41.2.133 int ppl_Octagonal_Shape_double_linear_partition (ppl_const_Octagonal_Shape_-double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, ppl_Octagonal_Shape_double_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.41.2.134 int ppl_Octagonal_Shape_double_map_space_dimensions (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.41.2.135 int ppl_Octagonal_Shape_double_maximize (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.41.2.136 int ppl_Octagonal_Shape_double_maximize_with_point (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.41.2.137 int ppl_Octagonal_Shape_double_minimize (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.41.2.138 int ppl_Octagonal_Shape_double_minimize_with_point (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.41.2.139 int ppl_Octagonal_Shape_double_OK (ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.41.2.140 int ppl_Octagonal_Shape_double_refine_with_congruence (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.41.2.141 int ppl_Octagonal_Shape_double_refine_with_congruences (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.41.2.142 int ppl_Octagonal_Shape_double_refine_with_constraint (ppl_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.41.2.143 int ppl_Octagonal_Shape_double_refine_with_constraints (ppl_-Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.41.2.144 int ppl_Octagonal_Shape_double_relation_with_Congruence (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.41.2.145 int ppl_Octagonal_Shape_double_relation_with_Constraint (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.41.2.146 int ppl_Octagonal_Shape_double_relation_with_Generator (ppl_const_Octagonal_Shape_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.41.2.147 int ppl_Octagonal_Shape_double_remove_higher_space_dimensions (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.41.2.148 int ppl_Octagonal_Shape_double_remove_space_dimensions (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.41.2.149 int ppl_Octagonal_Shape_double_simplify_using_context_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.150 int ppl_Octagonal_Shape_double_space_dimension (ppl_const_Octagonal_Shape_-double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.41.2.151 int ppl_Octagonal_Shape_double_strictly_contains_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.152 int ppl_Octagonal_Shape_double_time_elapse_assign (ppl_Octagonal_-Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.153 int ppl_Octagonal_Shape_double_topological_closure_assign (ppl_Octagonal_Shape_double_t *ph*) [related]

10.41.2.154 int ppl_Octagonal_Shape_double_total_memory_in_bytes (ppl_const_Octagonal_Shape_double_t *ps*, size_t ∗ *sz*) [related]

10.41.2.155 int ppl_Octagonal_Shape_double_unconstrain_space_dimension (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.41.2.156 int ppl_Octagonal_Shape_double_unconstrain_space_dimensions (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.41.2.157 int ppl_Octagonal_Shape_double_upper_bound_assign (ppl_-Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.158 int ppl_Octagonal_Shape_double_upper_bound_assign_if_exact (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.159 int ppl_Octagonal_Shape_double_widening_assign (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*) [related]

10.41.2.160 int ppl_Octagonal_Shape_double_widening_assign_with_tokens (ppl_Octagonal_Shape_double_t *x*, ppl_const_Octagonal_Shape_double_t *y*, unsigned * *tp*) [related]

10.41.2.161 int ppl_Octagonal_Shape_double_wrap_assign (ppl_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.41.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*, ppl_Generator_t *point*) [related]

10.41.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_double_2 (ppl_const_-Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.41.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*, ppl_Generator_t *point*) [related]

10.41.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_double_2 (ppl_const_-Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.41.2.166 int ppl_termination_test_MS_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*) [related]

10.41.2.167 int ppl_termination_test_MS_Octagonal_Shape_double_2 (ppl_const_Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*) `[related]`

10.41.2.168 int ppl_termination_test_PR_Octagonal_Shape_double (ppl_const_Octagonal_Shape_double_t *pset*) `[related]`

10.41.2.169 int ppl_termination_test_PR_Octagonal_Shape_double_2 (ppl_const_Octagonal_Shape_double_t *pset_before*, ppl_const_Octagonal_Shape_double_t *pset_after*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.42 ppl_Octagonal_Shape_float_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_float_from_space_dimension (ppl_Octagonal_Shape_float_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_float_from_Int8_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Int16_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Int32_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Int64_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Uint8_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Uint16_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Uint32_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Uint64_Box (ppl_Octagonal_Shape_float_t ∗pph, ppl_const_Uint64_Box_t ph)

- int ppl_new_Octagonal_Shape_float_from_Z_Box (ppl_Octagonal_Shape_float_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_Rational_Box (ppl_Octagonal_Shape_float_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int8_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int16_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int32_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int64_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_float_from_C_Polyhedron (ppl_Octagonal_Shape_float_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_float_from_NNC_Polyhedron (ppl_Octagonal_Shape_float_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_float_from_Grid (ppl_Octagonal_Shape_float_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_float_from_Float_Box (ppl_Octagonal_Shape_float_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_float (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_float_from_Double_Box (ppl_Octagonal_Shape_float_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_double (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_double (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_float_from_Long_Double_Box (ppl_Octagonal_Shape_float_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_long_double (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)

- int ppl_new_Octagonal_Shape_float_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Z_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Grid_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Float_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Float_Box_t ph, int complexity)

- int ppl_new_Octagonal_Shape_float_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Double_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_float_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_float_from_Constraint_System (ppl_Octagonal_Shape_float_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_float_from_Congruence_System (ppl_Octagonal_Shape_float_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_float_from_Generator_System (ppl_Octagonal_Shape_float_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_float_space_dimension (ppl_const_Octagonal_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_float_affine_dimension (ppl_const_Octagonal_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_float_relation_with_Constraint (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_float_relation_with_Generator (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_float_relation_with_Congruence (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_float_get_constraints (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_float_get_congruences (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_float_get_minimized_constraints (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_float_get_minimized_congruences (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_float_is_empty (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_is_universe (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_is_bounded (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_contains_integer_point (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_is_topologically_closed (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_is_discrete (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_topological_closure_assign (ppl_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_bounds_from_above (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_float_bounds_from_below (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le)

- int ppl_Octagonal_Shape_float_maximize (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_float_minimize (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_float_maximize_with_point (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_float_minimize_with_point (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_float_frequency (ppl_const_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_float_contains_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_strictly_contains_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_is_disjoint_from_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_equals_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_OK (ppl_const_Octagonal_Shape_float_t ph)
- int ppl_Octagonal_Shape_float_add_constraint (ppl_Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_float_add_congruence (ppl_Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_float_add_constraints (ppl_Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_float_add_congruences (ppl_Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_float_refine_with_constraint (ppl_Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_float_refine_with_congruence (ppl_Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_float_refine_with_constraints (ppl_Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_float_refine_with_congruences (ppl_Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_float_intersection_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_upper_bound_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_difference_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_concatenate_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_time_elapse_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_upper_bound_assign_if_exact (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_simplify_using_context_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)

- int ppl_Octagonal_Shape_float_constrains (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_float_unconstrain_space_dimension (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_float_unconstrain_space_dimensions (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_float_affine_image (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_affine_preimage (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_bounded_affine_image (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_bounded_affine_preimage (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_generalized_affine_image (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_generalized_affine_preimage (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_float_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_float_add_space_dimensions_and_embed (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_float_add_space_dimensions_and_project (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_float_remove_space_dimensions (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_float_remove_higher_space_dimensions (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_float_expand_space_dimension (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_float_fold_space_dimensions (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_float_map_space_dimensions (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_float_drop_some_non_integer_points (ppl_Octagonal_Shape_float_t ph, int complexity)
- int ppl_Octagonal_Shape_float_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_float_external_memory_in_bytes (ppl_const_Octagonal_Shape_float_t ps, size_t *sz)
- int ppl_Octagonal_Shape_float_total_memory_in_bytes (ppl_const_Octagonal_Shape_float_t ps, size_t *sz)
- int ppl_Octagonal_Shape_float_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, unsigned *tp)

- int ppl_Octagonal_Shape_float_BHMZ05_widening_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_widening_assign_with_tokens (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_float_widening_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_float_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_float_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_float_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_float_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_float_CC76_extrapolation_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_CC76_narrowing_assign (ppl_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y)
- int ppl_Octagonal_Shape_float_linear_partition (ppl_const_Octagonal_Shape_float_t x, ppl_const_Octagonal_Shape_float_t y, ppl_Octagonal_Shape_float_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Octagonal_Shape_float_wrap_assign (ppl_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_float_recycle_Constraint_System (ppl_Octagonal_Shape_float_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_float_recycle_Congruence_System (ppl_Octagonal_Shape_float_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_float_recycle_Generator_System (ppl_Octagonal_Shape_float_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Octagonal_Shape_float_t dst, ppl_const_Octagonal_Shape_float_t src)
- int ppl_Octagonal_Shape_float_add_recycled_constraints (ppl_Octagonal_Shape_float_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_float_add_recycled_congruences (ppl_Octagonal_Shape_float_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t pset, ppl_Polyhedron_t ph)

- int ppl_termination_test_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t pset_before, ppl_const_Octagonal_Shape_float_t pset_after, ppl_Polyhedron_t ph)

10.42.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_float_tag.

10.42.2 Friends And Related Function Documentation

10.42.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.42.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.42.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.42.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.42.2.5 int ppl_assign_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Octagonal_Shape_float_t *dst*, ppl_const_Octagonal_Shape_float_t *src*) [related]

10.42.2.6 int ppl_delete_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.7 int ppl_new_Octagonal_Shape_float_from_BD_Shape_double (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.42.2.8 int ppl_new_Octagonal_Shape_float_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.42.2.9 int ppl_new_Octagonal_Shape_float_from_BD_Shape_float (ppl_-Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.42.2.10 int ppl_new_Octagonal_Shape_float_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.42.2.11 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int16_t (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.42.2.12 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.42.2.13 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int32_t (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.42.2.14 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.42.2.15 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int64_t (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.42.2.16 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.42.2.17 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int8_t (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.42.2.18 int ppl_new_Octagonal_Shape_float_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.42.2.19 int ppl_new_Octagonal_Shape_float_from_BD_Shape_long_double (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.42.2.20 int ppl_new_Octagonal_Shape_float_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.42.2.21 int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.42.2.22 int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.42.2.23 int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.42.2.24 int ppl_new_Octagonal_Shape_float_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.42.2.25 int ppl_new_Octagonal_Shape_float_from_C_Polyhedron (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.42.2.26 int ppl_new_Octagonal_Shape_float_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.42.2.27 int ppl_new_Octagonal_Shape_float_from_Congruence_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.42.2.28 int ppl_new_Octagonal_Shape_float_from_Constraint_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.42.2.29 int ppl_new_Octagonal_Shape_float_from_Double_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.42.2.30 int ppl_new_Octagonal_Shape_float_from_Double_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) `[related]`

10.42.2.31 int ppl_new_Octagonal_Shape_float_from_Float_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Float_Box_t *ph*) `[related]`

10.42.2.32 int ppl_new_Octagonal_Shape_float_from_Float_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) `[related]`

10.42.2.33 int ppl_new_Octagonal_Shape_float_from_Generator_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Generator_System_t *cs*) `[related]`

10.42.2.34 int ppl_new_Octagonal_Shape_float_from_Grid (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Grid_t *ph*) `[related]`

10.42.2.35 int ppl_new_Octagonal_Shape_float_from_Grid_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) `[related]`

10.42.2.36 int ppl_new_Octagonal_Shape_float_from_Int16_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int16_Box_t *ph*) `[related]`

10.42.2.37 int ppl_new_Octagonal_Shape_float_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) `[related]`

10.42.2.38 int ppl_new_Octagonal_Shape_float_from_Int32_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.42.2.39 int ppl_new_Octagonal_Shape_float_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.42.2.40 int ppl_new_Octagonal_Shape_float_from_Int64_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.42.2.41 int ppl_new_Octagonal_Shape_float_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.42.2.42 int ppl_new_Octagonal_Shape_float_from_Int8_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.42.2.43 int ppl_new_Octagonal_Shape_float_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.42.2.44 int ppl_new_Octagonal_Shape_float_from_Long_Double_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.42.2.45 int ppl_new_Octagonal_Shape_float_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.42.2.46 int ppl_new_Octagonal_Shape_float_from_NNC_Polyhedron (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.42.2.47 int ppl_new_Octagonal_Shape_float_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.42.2.48 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_double (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.42.2.49 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.42.2.50 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.51 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.42.2.52 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.42.2.53 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.42.2.54 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.42.2.55 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.42.2.56 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.42.2.57 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.42.2.58 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.42.2.59 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.42.2.60 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.42.2.61 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.42.2.62 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.42.2.63 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) `[related]`

10.42.2.64 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) `[related]`

10.42.2.65 int ppl_new_Octagonal_Shape_float_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) `[related]`

10.42.2.66 int ppl_new_Octagonal_Shape_float_from_Rational_Box (ppl_-Octagonal_Shape_float_t * *pph*, ppl_const_Rational_Box_t *ph*) `[related]`

10.42.2.67 int ppl_new_Octagonal_Shape_float_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) `[related]`

10.42.2.68 int ppl_new_Octagonal_Shape_float_from_space_dimension (ppl_Octagonal_Shape_float_t * *pph*, ppl_dimension_type *d*, int *empty*) `[related]`

10.42.2.69 int ppl_new_Octagonal_Shape_float_from_Uint16_Box (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Uint16_Box_t *ph*) `[related]`

10.42.2.70 int ppl_new_Octagonal_Shape_float_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.42.2.71 int ppl_new_Octagonal_Shape_float_from_Uint32_Box (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.42.2.72 int ppl_new_Octagonal_Shape_float_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.42.2.73 int ppl_new_Octagonal_Shape_float_from_Uint64_Box (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.42.2.74 int ppl_new_Octagonal_Shape_float_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.42.2.75 int ppl_new_Octagonal_Shape_float_from_Uint8_Box (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.42.2.76 int ppl_new_Octagonal_Shape_float_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.42.2.77 int ppl_new_Octagonal_Shape_float_from_Z_Box (ppl_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.42.2.78 int ppl_new_Octagonal_Shape_float_from_Z_Box_with_complexity (ppl_Octagonal_Shape_float_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.42.2.79 int ppl_new_Octagonal_Shape_float_recycle_Congruence_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.42.2.80 int ppl_new_Octagonal_Shape_float_recycle_Constraint_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.42.2.81 int ppl_new_Octagonal_Shape_float_recycle_Generator_System (ppl_Octagonal_Shape_float_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.42.2.82 int ppl_Octagonal_Shape_float_add_congruence (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.42.2.83 int ppl_Octagonal_Shape_float_add_congruences (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.42.2.84 int ppl_Octagonal_Shape_float_add_constraint (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.42.2.85 int ppl_Octagonal_Shape_float_add_constraints (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.42.2.86 int ppl_Octagonal_Shape_float_add_recycled_congruences (ppl_Octagonal_Shape_float_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.42.2.87 int ppl_Octagonal_Shape_float_add_recycled_constraints (ppl_Octagonal_Shape_float_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.42.2.88 int ppl_Octagonal_Shape_float_add_space_dimensions_and_embed (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.42.2.89 int ppl_Octagonal_Shape_float_add_space_dimensions_and_project (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.42.2.90 int ppl_Octagonal_Shape_float_affine_dimension (ppl_const_Octagonal_Shape_float_t *ph*, ppl_dimension_type * *m*) [related]

10.42.2.91 int ppl_Octagonal_Shape_float_affine_image (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.42.2.92 int ppl_Octagonal_Shape_float_affine_preimage (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.42.2.93 int ppl_Octagonal_Shape_float_BHMZ05_widening_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.94 int ppl_Octagonal_Shape_float_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, unsigned * *tp*) [related]

10.42.2.95 int ppl_Octagonal_Shape_float_bounded_affine_image (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.42.2.96 int ppl_Octagonal_Shape_float_bounded_affine_preimage (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.42.2.97 int ppl_Octagonal_Shape_float_bounds_from_above (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.42.2.98 int ppl_Octagonal_Shape_float_bounds_from_below (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.42.2.99 int ppl_Octagonal_Shape_float_CC76_extrapolation_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.100 int ppl_Octagonal_Shape_float_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, unsigned * *tp*) [related]

10.42.2.101 int ppl_Octagonal_Shape_float_CC76_narrowing_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.102 int ppl_Octagonal_Shape_float_concatenate_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.103 int ppl_Octagonal_Shape_float_constrains (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.42.2.104 int ppl_Octagonal_Shape_float_contains_integer_point (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.105 int ppl_Octagonal_Shape_float_contains_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.106 int ppl_Octagonal_Shape_float_difference_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.107 int ppl_Octagonal_Shape_float_drop_some_non_integer_points (ppl_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.42.2.108 int ppl_Octagonal_Shape_float_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.42.2.109 int ppl_Octagonal_Shape_float_equals_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.110 int ppl_Octagonal_Shape_float_expand_space_dimension (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.42.2.111 int ppl_Octagonal_Shape_float_external_memory_in_bytes (ppl_const_Octagonal_Shape_float_t *ps*, size_t ∗ *sz*) [related]

10.42.2.112 int ppl_Octagonal_Shape_float_fold_space_dimensions (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.42.2.113 int ppl_Octagonal_Shape_float_frequency (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.42.2.114 int ppl_Octagonal_Shape_float_generalized_affine_image (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.42.2.115 int ppl_Octagonal_Shape_float_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.42.2.116 int ppl_Octagonal_Shape_float_generalized_affine_preimage (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.42.2.117 int ppl_Octagonal_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.42.2.118 int ppl_Octagonal_Shape_float_get_congruences (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.42.2.119 int ppl_Octagonal_Shape_float_get_constraints (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.42.2.120 int ppl_Octagonal_Shape_float_get_minimized_congruences (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.42.2.121 int ppl_Octagonal_Shape_float_get_minimized_constraints (ppl_const_-Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.42.2.122 int ppl_Octagonal_Shape_float_intersection_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.123 int ppl_Octagonal_Shape_float_is_bounded (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.124 int ppl_Octagonal_Shape_float_is_discrete (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.125 int ppl_Octagonal_Shape_float_is_disjoint_from_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.126 int ppl_Octagonal_Shape_float_is_empty (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.127 int ppl_Octagonal_Shape_float_is_topologically_closed (ppl_const_Octagonal_-Shape_float_t *ph*) [related]

10.42.2.128 int ppl_Octagonal_Shape_float_is_universe (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.129 int ppl_Octagonal_Shape_float_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.42.2.130 int ppl_Octagonal_Shape_float_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.42.2.131 int ppl_Octagonal_Shape_float_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.42.2.132 int ppl_Octagonal_Shape_float_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.42.2.133 int ppl_Octagonal_Shape_float_linear_partition (ppl_const_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, ppl_Octagonal_Shape_float_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.42.2.134 int ppl_Octagonal_Shape_float_map_space_dimensions (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.42.2.135 int ppl_Octagonal_Shape_float_maximize (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.42.2.136 int ppl_Octagonal_Shape_float_maximize_with_point (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.42.2.137 int ppl_Octagonal_Shape_float_minimize (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.42.2.138 int ppl_Octagonal_Shape_float_minimize_with_point (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.42.2.139 int ppl_Octagonal_Shape_float_OK (ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.42.2.140 int ppl_Octagonal_Shape_float_refine_with_congruence (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.42.2.141 int ppl_Octagonal_Shape_float_refine_with_congruences (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.42.2.142 int ppl_Octagonal_Shape_float_refine_with_constraint (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.42.2.143 int ppl_Octagonal_Shape_float_refine_with_constraints (ppl_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.42.2.144 int ppl_Octagonal_Shape_float_relation_with_Congruence (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.42.2.145 int ppl_Octagonal_Shape_float_relation_with_Constraint (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.42.2.146 int ppl_Octagonal_Shape_float_relation_with_Generator (ppl_const_Octagonal_Shape_float_t *ph*, ppl_const_Generator_t *c*) [related]

10.42.2.147 int ppl_Octagonal_Shape_float_remove_higher_space_dimensions (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.42.2.148 int ppl_Octagonal_Shape_float_remove_space_dimensions (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.42.2.149 int ppl_Octagonal_Shape_float_simplify_using_context_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.150 int ppl_Octagonal_Shape_float_space_dimension (ppl_const_Octagonal_Shape_float_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.42.2.151 int ppl_Octagonal_Shape_float_strictly_contains_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.152 int ppl_Octagonal_Shape_float_time_elapse_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.153 int ppl_Octagonal_Shape_float_topological_closure_assign (ppl_Octagonal_Shape_float_t *ph*) [related]

10.42.2.154 int ppl_Octagonal_Shape_float_total_memory_in_bytes (ppl_const_Octagonal_Shape_float_t *ps*, size_t ∗ *sz*) [related]

10.42.2.155 int ppl_Octagonal_Shape_float_unconstrain_space_dimension (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.42.2.156 int ppl_Octagonal_Shape_float_unconstrain_space_dimensions (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.42.2.157 int ppl_Octagonal_Shape_float_upper_bound_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.158 int ppl_Octagonal_Shape_float_upper_bound_assign_if_exact (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.159 int ppl_Octagonal_Shape_float_widening_assign (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*) [related]

10.42.2.160 int ppl_Octagonal_Shape_float_widening_assign_with_tokens (ppl_Octagonal_Shape_float_t *x*, ppl_const_Octagonal_Shape_float_t *y*, unsigned ∗ *tp*) [related]

10.42.2.161 int ppl_Octagonal_Shape_float_wrap_assign (ppl_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.42.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*, ppl_Generator_t *point*) [related]

10.42.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*, ppl_Generator_t *point*) [related]

10.42.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*, ppl_Generator_t *point*) [related]

10.42.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*, ppl_Generator_t *point*) [related]

10.42.2.166 int ppl_termination_test_MS_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*) [related]

10.42.2.167 int ppl_termination_test_MS_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*) [related]

10.42.2.168 int ppl_termination_test_PR_Octagonal_Shape_float (ppl_const_Octagonal_Shape_float_t *pset*) [related]

10.42.2.169 int ppl_termination_test_PR_Octagonal_Shape_float_2 (ppl_const_Octagonal_Shape_float_t *pset_before*, ppl_const_Octagonal_Shape_float_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.43 ppl_Octagonal_Shape_int16_t_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_int16_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t ph)

- int ppl_new_Octagonal_Shape_int16_t_from_space_dimension (ppl_Octagonal_Shape_int16_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_int16_t_from_Int8_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Int16_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Int32_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Int64_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint8_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint16_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint32_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint64_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Z_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Rational_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_C_Polyhedron (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Grid (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Grid_t ph)

- int ppl_new_Octagonal_Shape_int16_t_from_Float_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_float (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Double_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_double (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Long_Double_Box (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int16_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int16_t_from_Constraint_System (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int16_t_from_Congruence_System (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int16_t_from_Generator_System (ppl_Octagonal_Shape_int16_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_int16_t_space_dimension (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int16_t_affine_dimension (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int16_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int16_t_relation_with_Generator (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Generator_t c)

- int ppl_Octagonal_Shape_int16_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int16_t_get_constraints (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t ∗pcs)
- int ppl_Octagonal_Shape_int16_t_get_congruences (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t ∗pcs)
- int ppl_Octagonal_Shape_int16_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t ∗pcs)
- int ppl_Octagonal_Shape_int16_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t ∗pcs)
- int ppl_Octagonal_Shape_int16_t_is_empty (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_is_universe (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_is_bounded (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_contains_integer_point (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_is_topologically_closed (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_is_discrete (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_topological_closure_assign (ppl_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_bounds_from_above (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int16_t_bounds_from_below (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int16_t_maximize (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Octagonal_Shape_int16_t_minimize (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Octagonal_Shape_int16_t_maximize_with_point (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int16_t_minimize_with_point (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int16_t_frequency (ppl_const_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_int16_t_contains_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_strictly_contains_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_is_disjoint_from_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_equals_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_OK (ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_Octagonal_Shape_int16_t_add_constraint (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int16_t_add_congruence (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int16_t_add_constraints (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)

- int ppl_Octagonal_Shape_int16_t_add_congruences (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int16_t_refine_with_constraint (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int16_t_refine_with_congruence (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int16_t_refine_with_constraints (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int16_t_refine_with_congruences (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int16_t_intersection_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_upper_bound_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_difference_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_concatenate_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_time_elapse_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_simplify_using_context_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_constrains (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int16_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int16_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int16_t_affine_image (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_affine_preimage (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_bounded_affine_image (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_bounded_affine_preimage (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_generalized_affine_image (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_generalized_affine_preimage (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Octagonal_Shape_int16_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int16_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int16_t_remove_space_dimensions (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int16_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int16_t_expand_space_dimension (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_int16_t_fold_space_dimensions (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int16_t_map_space_dimensions (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_int16_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_Octagonal_Shape_int16_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_int16_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int16_t_t ps, size_t *sz)
- int ppl_Octagonal_Shape_int16_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int16_t_t ps, size_t *sz)
- int ppl_Octagonal_Shape_int16_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, unsigned *tp)
- int ppl_Octagonal_Shape_int16_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, unsigned *tp)
- int ppl_Octagonal_Shape_int16_t_widening_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_int16_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_int16_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int16_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int16_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, unsigned *tp)
- int ppl_Octagonal_Shape_int16_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y)
- int ppl_Octagonal_Shape_int16_t_linear_partition (ppl_const_Octagonal_Shape_int16_t_t x, ppl_const_Octagonal_Shape_int16_t_t y, ppl_Octagonal_Shape_int16_t_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)

- int ppl_Octagonal_Shape_int16_t_wrap_assign (ppl_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_int16_t_recycle_Constraint_System (ppl_Octagonal_Shape_int16_t_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int16_t_recycle_Congruence_System (ppl_Octagonal_Shape_int16_t_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int16_t_recycle_Generator_System (ppl_Octagonal_Shape_int16_t_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t dst, ppl_const_Octagonal_Shape_int16_t_t src)
- int ppl_Octagonal_Shape_int16_t_add_recycled_constraints (ppl_Octagonal_Shape_int16_t_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int16_t_add_recycled_congruences (ppl_Octagonal_Shape_int16_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_Shape_int16_t_t pset_before, ppl_const_Octagonal_Shape_int16_t_t pset_after, ppl_Polyhedron_t ph)

10.43.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_int16_t_tag.

10.43.2 Friends And Related Function Documentation

10.43.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.43.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int16_t_2 (ppl_const_-Octagonal_Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.43.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.43.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int16_t_2 (ppl_const_-Octagonal_Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.43.2.5 int ppl_assign_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t *dst*, ppl_const_Octagonal_Shape_int16_t_t *src*) [related]

10.43.2.6 int ppl_delete_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.7 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_double (ppl_Octagonal_Shape_int16_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.43.2.8 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int16_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.43.2.9 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_float (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.43.2.10 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.43.2.11 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.43.2.12 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.43.2.13 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.43.2.14 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.43.2.15 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.43.2.16 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.43.2.17 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.43.2.18 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.43.2.19 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.43.2.20 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.43.2.21 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.43.2.22 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.43.2.23 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.43.2.24 int ppl_new_Octagonal_Shape_int16_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.43.2.25 int ppl_new_Octagonal_Shape_int16_t_from_C_Polyhedron (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.43.2.26 int ppl_new_Octagonal_Shape_int16_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.43.2.27 int ppl_new_Octagonal_Shape_int16_t_from_Congruence_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.43.2.28 int ppl_new_Octagonal_Shape_int16_t_from_Constraint_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.43.2.29 int ppl_new_Octagonal_Shape_int16_t_from_Double_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.43.2.30 int ppl_new_Octagonal_Shape_int16_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.43.2.31 int ppl_new_Octagonal_Shape_int16_t_from_Float_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.43.2.32 int ppl_new_Octagonal_Shape_int16_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.43.2.33 int ppl_new_Octagonal_Shape_int16_t_from_Generator_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.43.2.34 int ppl_new_Octagonal_Shape_int16_t_from_Grid (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.43.2.35 int ppl_new_Octagonal_Shape_int16_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.43.2.36 int ppl_new_Octagonal_Shape_int16_t_from_Int16_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.43.2.37 int ppl_new_Octagonal_Shape_int16_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.43.2.38 int ppl_new_Octagonal_Shape_int16_t_from_Int32_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.43.2.39 int ppl_new_Octagonal_Shape_int16_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.43.2.40 int ppl_new_Octagonal_Shape_int16_t_from_Int64_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.43.2.41 int ppl_new_Octagonal_Shape_int16_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.43.2.42 int ppl_new_Octagonal_Shape_int16_t_from_Int8_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.43.2.43 int ppl_new_Octagonal_Shape_int16_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.43.2.44 int ppl_new_Octagonal_Shape_int16_t_from_Long_Double_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.43.2.45 int ppl_new_Octagonal_Shape_int16_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.43.2.46 int ppl_new_Octagonal_Shape_int16_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.43.2.47 int ppl_new_Octagonal_Shape_int16_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.43.2.48 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.43.2.49 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.43.2.50 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.43.2.51 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.43.2.52 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.53 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.43.2.54 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.43.2.55 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.43.2.56 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.43.2.57 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.43.2.58 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.43.2.59 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.43.2.60 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.43.2.61 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.43.2.62 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.43.2.63 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.43.2.64 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.43.2.65 int ppl_new_Octagonal_Shape_int16_t_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.43.2.66 int ppl_new_Octagonal_Shape_int16_t_from_Rational_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.43.2.67 int ppl_new_Octagonal_Shape_int16_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.43.2.68 int ppl_new_Octagonal_Shape_int16_t_from_space_dimension (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.43.2.69 int ppl_new_Octagonal_Shape_int16_t_from_Uint16_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.43.2.70 int ppl_new_Octagonal_Shape_int16_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.43.2.71 int ppl_new_Octagonal_Shape_int16_t_from_Uint32_Box (ppl_-Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.43.2.72 int ppl_new_Octagonal_Shape_int16_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.43.2.73 int ppl_new_Octagonal_Shape_int16_t_from_Uint64_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.43.2.74 int ppl_new_Octagonal_Shape_int16_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.43.2.75 int ppl_new_Octagonal_Shape_int16_t_from_Uint8_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.43.2.76 int ppl_new_Octagonal_Shape_int16_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.43.2.77 int ppl_new_Octagonal_Shape_int16_t_from_Z_Box (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.43.2.78 int ppl_new_Octagonal_Shape_int16_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.43.2.79 int ppl_new_Octagonal_Shape_int16_t_recycle_Congruence_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.43.2.80 int ppl_new_Octagonal_Shape_int16_t_recycle_Constraint_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.43.2.81 int ppl_new_Octagonal_Shape_int16_t_recycle_Generator_System (ppl_Octagonal_Shape_int16_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.43.2.82 int ppl_Octagonal_Shape_int16_t_add_congruence (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.43.2.83 int ppl_Octagonal_Shape_int16_t_add_congruences (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.43.2.84 int ppl_Octagonal_Shape_int16_t_add_constraint (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.43.2.85 int ppl_Octagonal_Shape_int16_t_add_constraints (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.43.2.86 int ppl_Octagonal_Shape_int16_t_add_recycled_congruences (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.43.2.87 int ppl_Octagonal_Shape_int16_t_add_recycled_constraints (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.43.2.88 int ppl_Octagonal_Shape_int16_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.43.2.89 int ppl_Octagonal_Shape_int16_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.43.2.90 int ppl_Octagonal_Shape_int16_t_affine_dimension (ppl_const_Octagonal_Shape_-int16_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.43.2.91 int ppl_Octagonal_Shape_int16_t_affine_image (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.43.2.92 int ppl_Octagonal_Shape_int16_t_affine_preimage (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.43.2.93 int ppl_Octagonal_Shape_int16_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.94 int ppl_Octagonal_Shape_int16_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, unsigned ∗ *tp*) [related]

10.43.2.95 int ppl_Octagonal_Shape_int16_t_bounded_affine_image (ppl_Octagonal_-Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.43.2.96 int ppl_Octagonal_Shape_int16_t_bounded_affine_preimage (ppl_Octagonal_-Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.43.2.97 int ppl_Octagonal_Shape_int16_t_bounds_from_above (ppl_const_-Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.43.2.98 int ppl_Octagonal_Shape_int16_t_bounds_from_below (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.43.2.99 int ppl_Octagonal_Shape_int16_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.100 int ppl_Octagonal_Shape_int16_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, unsigned ∗ *tp*) [related]

10.43.2.101 int ppl_Octagonal_Shape_int16_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.102 int ppl_Octagonal_Shape_int16_t_concatenate_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.103 int ppl_Octagonal_Shape_int16_t_constrains (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.43.2.104 int ppl_Octagonal_Shape_int16_t_contains_integer_point (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.105 int ppl_Octagonal_Shape_int16_t_contains_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.106 int ppl_Octagonal_Shape_int16_t_difference_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.107 int ppl_Octagonal_Shape_int16_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.43.2.108 int ppl_Octagonal_Shape_int16_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.43.2.109 int ppl_Octagonal_Shape_int16_t_equals_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.110 int ppl_Octagonal_Shape_int16_t_expand_space_dimension (ppl_Octagonal_-Shape_int16_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.43.2.111 int ppl_Octagonal_Shape_int16_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int16_t_t *ps*, size_t ∗ *sz*) [related]

10.43.2.112 int ppl_Octagonal_Shape_int16_t_fold_space_dimensions (ppl_Octagonal_-Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.43.2.113 int ppl_Octagonal_Shape_int16_t_frequency (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.43.2.114 int ppl_Octagonal_Shape_int16_t_generalized_affine_image (ppl_Octagonal_Shape_-int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.43.2.115 int ppl_Octagonal_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.43.2.116 int ppl_Octagonal_Shape_int16_t_generalized_affine_preimage (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.43.2.117 int ppl_Octagonal_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.43.2.118 int ppl_Octagonal_Shape_int16_t_get_congruences (ppl_const_-Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.43.2.119 int ppl_Octagonal_Shape_int16_t_get_constraints (ppl_const_-Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.43.2.120 int ppl_Octagonal_Shape_int16_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.43.2.121 int ppl_Octagonal_Shape_int16_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.43.2.122 int ppl_Octagonal_Shape_int16_t_intersection_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.123 int ppl_Octagonal_Shape_int16_t_is_bounded (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.124 int ppl_Octagonal_Shape_int16_t_is_discrete (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.125 int ppl_Octagonal_Shape_int16_t_is_disjoint_from_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.126 int ppl_Octagonal_Shape_int16_t_is_empty (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.127 int ppl_Octagonal_Shape_int16_t_is_topologically_closed (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.128 int ppl_Octagonal_Shape_int16_t_is_universe (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.129 int ppl_Octagonal_Shape_int16_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.43.2.130 int ppl_Octagonal_Shape_int16_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.43.2.131 int ppl_Octagonal_Shape_int16_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.43.2.132 int ppl_Octagonal_Shape_int16_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.43.2.133 int ppl_Octagonal_Shape_int16_t_linear_partition (ppl_const_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, ppl_Octagonal_Shape_int16_t_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.43.2.134 int ppl_Octagonal_Shape_int16_t_map_space_dimensions (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.43.2.135 int ppl_Octagonal_Shape_int16_t_maximize (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.43.2.136 int ppl_Octagonal_Shape_int16_t_maximize_with_point (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.43.2.137 int ppl_Octagonal_Shape_int16_t_minimize (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.43.2.138 int ppl_Octagonal_Shape_int16_t_minimize_with_point (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.43.2.139 int ppl_Octagonal_Shape_int16_t_OK (ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.140 int ppl_Octagonal_Shape_int16_t_refine_with_congruence (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.43.2.141 int ppl_Octagonal_Shape_int16_t_refine_with_congruences (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.43.2.142 int ppl_Octagonal_Shape_int16_t_refine_with_constraint (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.43.2.143 int ppl_Octagonal_Shape_int16_t_refine_with_constraints (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.43.2.144 int ppl_Octagonal_Shape_int16_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.43.2.145 int ppl_Octagonal_Shape_int16_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.43.2.146 int ppl_Octagonal_Shape_int16_t_relation_with_Generator (ppl_const_Octagonal_Shape_int16_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.43.2.147 int ppl_Octagonal_Shape_int16_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.43.2.148 int ppl_Octagonal_Shape_int16_t_remove_space_dimensions (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.43.2.149 int ppl_Octagonal_Shape_int16_t_simplify_using_context_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.150 int ppl_Octagonal_Shape_int16_t_space_dimension (ppl_const_-Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type * *m*) [related]

10.43.2.151 int ppl_Octagonal_Shape_int16_t_strictly_contains_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.152 int ppl_Octagonal_Shape_int16_t_time_elapse_assign (ppl_Octagonal_-Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.153 int ppl_Octagonal_Shape_int16_t_topological_closure_assign (ppl_Octagonal_Shape_int16_t_t *ph*) [related]

10.43.2.154 int ppl_Octagonal_Shape_int16_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int16_t_t *ps*, size_t * *sz*) [related]

10.43.2.155 int ppl_Octagonal_Shape_int16_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.43.2.156 int ppl_Octagonal_Shape_int16_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.43.2.157 int ppl_Octagonal_Shape_int16_t_upper_bound_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.158 int ppl_Octagonal_Shape_int16_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.159 int ppl_Octagonal_Shape_int16_t_widening_assign (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*) [related]

10.43.2.160 int ppl_Octagonal_Shape_int16_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int16_t_t *x*, ppl_const_Octagonal_Shape_int16_t_t *y*, unsigned ∗ *tp*) [related]

10.43.2.161 int ppl_Octagonal_Shape_int16_t_wrap_assign (ppl_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.43.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*, ppl_Generator_t *point*) [related]

10.43.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int16_t_2 (ppl_const_-Octagonal_Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.43.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*, ppl_Generator_t *point*) [related]

10.43.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int16_t_2 (ppl_const_-Octagonal_Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.43.2.166 int ppl_termination_test_MS_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*) [related]

10.43.2.167 int ppl_termination_test_MS_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_-Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*) [related]

10.43.2.168 int ppl_termination_test_PR_Octagonal_Shape_int16_t (ppl_const_Octagonal_Shape_int16_t_t *pset*) [related]

10.43.2.169 int ppl_termination_test_PR_Octagonal_Shape_int16_t_2 (ppl_const_Octagonal_-Shape_int16_t_t *pset_before*, ppl_const_Octagonal_Shape_int16_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.44 ppl_Octagonal_Shape_int32_t_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_space_dimension (ppl_Octagonal_Shape_int32_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_int32_t_from_Int8_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Int16_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Int32_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Int64_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint8_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint16_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint32_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint64_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Z_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Rational_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)

- int ppl_new_Octagonal_Shape_int32_t_from_C_Polyhedron (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Grid (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Float_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_float (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Double_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_double (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Long_Double_Box (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int32_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int32_t_from_Constraint_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int32_t_from_Congruence_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int32_t_from_Generator_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_int32_t_space_dimension (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_dimension_type *m)

- int ppl_Octagonal_Shape_int32_t_affine_dimension (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int32_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int32_t_relation_with_Generator (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_int32_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int32_t_get_constraints (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int32_t_get_congruences (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int32_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int32_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int32_t_is_empty (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_is_universe (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_is_bounded (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_contains_integer_point (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_is_topologically_closed (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_is_discrete (ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_topological_closure_assign (ppl_Octagonal_Shape_int32_t_t ph)
- int ppl_Octagonal_Shape_int32_t_bounds_from_above (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int32_t_bounds_from_below (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int32_t_maximize (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int32_t_minimize (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int32_t_maximize_with_point (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int32_t_minimize_with_point (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int32_t_frequency (ppl_const_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_int32_t_contains_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_strictly_contains_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_is_disjoint_from_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_equals_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_OK (ppl_const_Octagonal_Shape_int32_t_t ph)

- int ppl_Octagonal_Shape_int32_t_add_constraint (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_-Constraint_t c)
- int ppl_Octagonal_Shape_int32_t_add_congruence (ppl_Octagonal_Shape_int32_t_t ph, ppl_-const_Congruence_t c)
- int ppl_Octagonal_Shape_int32_t_add_constraints (ppl_Octagonal_Shape_int32_t_t ph, ppl_-const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int32_t_add_congruences (ppl_Octagonal_Shape_int32_t_t ph, ppl_-const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int32_t_refine_with_constraint (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int32_t_refine_with_congruence (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int32_t_refine_with_constraints (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int32_t_refine_with_congruences (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int32_t_intersection_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_-const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_upper_bound_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_-const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_difference_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_-const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_concatenate_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_-const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_time_elapse_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_-const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int32_t_-t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_simplify_using_context_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_constrains (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_-type var)
- int ppl_Octagonal_Shape_int32_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int32_t_-t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int32_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int32_t_affine_image (ppl_Octagonal_Shape_int32_t_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int32_t_affine_preimage (ppl_Octagonal_Shape_int32_t_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int32_t_bounded_affine_image (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int32_t_bounded_affine_preimage (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int32_t_generalized_affine_image (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int32_t_generalized_affine_preimage (ppl_Octagonal_Shape_int32_t_-t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Octagonal_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int32_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int32_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int32_t_remove_space_dimensions (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int32_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int32_t_expand_space_dimension (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_int32_t_fold_space_dimensions (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int32_t_map_space_dimensions (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_int32_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_Octagonal_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_int32_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_int32_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_int32_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int32_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int32_t_widening_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_int32_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_int32_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int32_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int32_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int32_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)

- int ppl_Octagonal_Shape_int32_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y)
- int ppl_Octagonal_Shape_int32_t_linear_partition (ppl_const_Octagonal_Shape_int32_t_t x, ppl_const_Octagonal_Shape_int32_t_t y, ppl_Octagonal_Shape_int32_t_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Octagonal_Shape_int32_t_wrap_assign (ppl_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_int32_t_recycle_Constraint_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int32_t_recycle_Congruence_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int32_t_recycle_Generator_System (ppl_Octagonal_Shape_int32_t_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t dst, ppl_const_Octagonal_Shape_int32_t_t src)
- int ppl_Octagonal_Shape_int32_t_add_recycled_constraints (ppl_Octagonal_Shape_int32_t_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int32_t_add_recycled_congruences (ppl_Octagonal_Shape_int32_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t pset_before, ppl_const_Octagonal_Shape_int32_t_t pset_after, ppl_Polyhedron_t ph)

10.44.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_int32_t_tag.

10.44.2 Friends And Related Function Documentation

10.44.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.44.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.44.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.44.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.44.2.5 int ppl_assign_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t *dst*, ppl_const_Octagonal_Shape_int32_t_t *src*) `[related]`

10.44.2.6 int ppl_delete_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *ph*) `[related]`

10.44.2.7 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_double (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.44.2.8 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.44.2.9 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_float (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.44.2.10 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.44.2.11 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.44.2.12 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.44.2.13 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.44.2.14 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.44.2.15 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.44.2.16 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.44.2.17 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.44.2.18 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.44.2.19 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.44.2.20 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.44.2.21 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.44.2.22 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.44.2.23 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.44.2.24 int ppl_new_Octagonal_Shape_int32_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.44.2.25 int ppl_new_Octagonal_Shape_int32_t_from_C_Polyhedron (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.44.2.26 int ppl_new_Octagonal_Shape_int32_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.44.2.27 int ppl_new_Octagonal_Shape_int32_t_from_Congruence_System (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.44.2.28 int ppl_new_Octagonal_Shape_int32_t_from_Constraint_System (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.44.2.29 int ppl_new_Octagonal_Shape_int32_t_from_Double_Box (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.44.2.30 int ppl_new_Octagonal_Shape_int32_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.44.2.31 int ppl_new_Octagonal_Shape_int32_t_from_Float_Box (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Float_Box_t *ph*) [related]

10.44.2.32 int ppl_new_Octagonal_Shape_int32_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.44.2.33 int ppl_new_Octagonal_Shape_int32_t_from_Generator_System (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.44.2.34 int ppl_new_Octagonal_Shape_int32_t_from_Grid (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.44.2.35 int ppl_new_Octagonal_Shape_int32_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.44.2.36 int ppl_new_Octagonal_Shape_int32_t_from_Int16_Box (ppl_-Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.44.2.37 int ppl_new_Octagonal_Shape_int32_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.44.2.38 int ppl_new_Octagonal_Shape_int32_t_from_Int32_Box (ppl_-Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.44.2.39 int ppl_new_Octagonal_Shape_int32_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.44.2.40 int ppl_new_Octagonal_Shape_int32_t_from_Int64_Box (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.44.2.41 int ppl_new_Octagonal_Shape_int32_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.44.2.42 int ppl_new_Octagonal_Shape_int32_t_from_Int8_Box (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.44.2.43 int ppl_new_Octagonal_Shape_int32_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.44.2.44 int ppl_new_Octagonal_Shape_int32_t_from_Long_Double_Box (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.44.2.45 int ppl_new_Octagonal_Shape_int32_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.44.2.46 int ppl_new_Octagonal_Shape_int32_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.44.2.47 int ppl_new_Octagonal_Shape_int32_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.44.2.48 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.44.2.49 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-double_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.44.2.50 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.44.2.51 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.44.2.52 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.44.2.53 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.44.2.54 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.55 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.44.2.56 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.44.2.57 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.44.2.58 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.44.2.59 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.44.2.60 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.44.2.61 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.44.2.62 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.44.2.63 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.44.2.64 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.44.2.65 int ppl_new_Octagonal_Shape_int32_t_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.44.2.66 int ppl_new_Octagonal_Shape_int32_t_from_Rational_Box (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.44.2.67 int ppl_new_Octagonal_Shape_int32_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.44.2.68 int ppl_new_Octagonal_Shape_int32_t_from_space_dimension (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.44.2.69 int ppl_new_Octagonal_Shape_int32_t_from_Uint16_Box (ppl_-Octagonal_Shape_int32_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.44.2.70 int ppl_new_Octagonal_Shape_int32_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.44.2.71 int ppl_new_Octagonal_Shape_int32_t_from_Uint32_Box (ppl_-Octagonal_Shape_int32_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.44.2.72 int ppl_new_Octagonal_Shape_int32_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.44.2.73 int ppl_new_Octagonal_Shape_int32_t_from_Uint64_Box (ppl_-Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.44.2.74 int ppl_new_Octagonal_Shape_int32_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.44.2.75 int ppl_new_Octagonal_Shape_int32_t_from_Uint8_Box (ppl_-Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.44.2.76 int ppl_new_Octagonal_Shape_int32_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.44.2.77 int ppl_new_Octagonal_Shape_int32_t_from_Z_Box (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.44.2.78 int ppl_new_Octagonal_Shape_int32_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.44.2.79 int ppl_new_Octagonal_Shape_int32_t_recycle_Congruence_System (ppl_Octagonal_Shape_int32_t_t ∗ *pph*, ppl_Congruence_System_t *cs*) [related]

10.44.2.80 int ppl_new_Octagonal_Shape_int32_t_recycle_Constraint_System (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.44.2.81 int ppl_new_Octagonal_Shape_int32_t_recycle_Generator_System (ppl_Octagonal_Shape_int32_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.44.2.82 int ppl_Octagonal_Shape_int32_t_add_congruence (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.44.2.83 int ppl_Octagonal_Shape_int32_t_add_congruences (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.44.2.84 int ppl_Octagonal_Shape_int32_t_add_constraint (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.44.2.85 int ppl_Octagonal_Shape_int32_t_add_constraints (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.44.2.86 int ppl_Octagonal_Shape_int32_t_add_recycled_congruences (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.44.2.87 int ppl_Octagonal_Shape_int32_t_add_recycled_constraints (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.44.2.88 int ppl_Octagonal_Shape_int32_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.44.2.89 int ppl_Octagonal_Shape_int32_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.44.2.90 int ppl_Octagonal_Shape_int32_t_affine_dimension (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.44.2.91 int ppl_Octagonal_Shape_int32_t_affine_image (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.44.2.92 int ppl_Octagonal_Shape_int32_t_affine_preimage (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.44.2.93 int ppl_Octagonal_Shape_int32_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.94 int ppl_Octagonal_Shape_int32_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, unsigned * *tp*) [related]

10.44.2.95 int ppl_Octagonal_Shape_int32_t_bounded_affine_image (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.44.2.96 int ppl_Octagonal_Shape_int32_t_bounded_affine_preimage (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.44.2.97 int ppl_Octagonal_Shape_int32_t_bounds_from_above (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.44.2.98 int ppl_Octagonal_Shape_int32_t_bounds_from_below (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.44.2.99 int ppl_Octagonal_Shape_int32_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.100 int ppl_Octagonal_Shape_int32_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, unsigned * *tp*) [related]

10.44.2.101 int ppl_Octagonal_Shape_int32_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.102 int ppl_Octagonal_Shape_int32_t_concatenate_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.103 int ppl_Octagonal_Shape_int32_t_constrains (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.44.2.104 int ppl_Octagonal_Shape_int32_t_contains_integer_point (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.105 int ppl_Octagonal_Shape_int32_t_contains_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.106 int ppl_Octagonal_Shape_int32_t_difference_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.107 int ppl_Octagonal_Shape_int32_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.44.2.108 int ppl_Octagonal_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.44.2.109 int ppl_Octagonal_Shape_int32_t_equals_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.110 int ppl_Octagonal_Shape_int32_t_expand_space_dimension (ppl_Octagonal_-Shape_int32_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.44.2.111 int ppl_Octagonal_Shape_int32_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.44.2.112 int ppl_Octagonal_Shape_int32_t_fold_space_dimensions (ppl_Octagonal_-Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.44.2.113 int ppl_Octagonal_Shape_int32_t_frequency (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.44.2.114 int ppl_Octagonal_Shape_int32_t_generalized_affine_image (ppl_Octagonal_Shape_-int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.44.2.115 int ppl_Octagonal_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.44.2.116 int ppl_Octagonal_Shape_int32_t_generalized_affine_preimage (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.44.2.117 int ppl_Octagonal_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.44.2.118 int ppl_Octagonal_Shape_int32_t_get_congruences (ppl_const_-Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.44.2.119 int ppl_Octagonal_Shape_int32_t_get_constraints (ppl_const_-Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.44.2.120 int ppl_Octagonal_Shape_int32_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.44.2.121 int ppl_Octagonal_Shape_int32_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.44.2.122 int ppl_Octagonal_Shape_int32_t_intersection_assign (ppl_Octagonal_-Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.123 int ppl_Octagonal_Shape_int32_t_is_bounded (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.124 int ppl_Octagonal_Shape_int32_t_is_discrete (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.125 int ppl_Octagonal_Shape_int32_t_is_disjoint_from_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.126 int ppl_Octagonal_Shape_int32_t_is_empty (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.127 int ppl_Octagonal_Shape_int32_t_is_topologically_closed (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.128 int ppl_Octagonal_Shape_int32_t_is_universe (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.129 int ppl_Octagonal_Shape_int32_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.44.2.130 int ppl_Octagonal_Shape_int32_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.44.2.131 int ppl_Octagonal_Shape_int32_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.44.2.132 int ppl_Octagonal_Shape_int32_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.44.2.133 int ppl_Octagonal_Shape_int32_t_linear_partition (ppl_const_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, ppl_Octagonal_Shape_int32_t_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.44.2.134 int ppl_Octagonal_Shape_int32_t_map_space_dimensions (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.44.2.135 int ppl_Octagonal_Shape_int32_t_maximize (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.44.2.136 int ppl_Octagonal_Shape_int32_t_maximize_with_point (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.44.2.137 int ppl_Octagonal_Shape_int32_t_minimize (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.44.2.138 int ppl_Octagonal_Shape_int32_t_minimize_with_point (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.44.2.139 int ppl_Octagonal_Shape_int32_t_OK (ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.140 int ppl_Octagonal_Shape_int32_t_refine_with_congruence (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.44.2.141 int ppl_Octagonal_Shape_int32_t_refine_with_congruences (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.44.2.142 int ppl_Octagonal_Shape_int32_t_refine_with_constraint (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.44.2.143 int ppl_Octagonal_Shape_int32_t_refine_with_constraints (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.44.2.144 int ppl_Octagonal_Shape_int32_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.44.2.145 int ppl_Octagonal_Shape_int32_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.44.2.146 int ppl_Octagonal_Shape_int32_t_relation_with_Generator (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.44.2.147 int ppl_Octagonal_Shape_int32_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.44.2.148 int ppl_Octagonal_Shape_int32_t_remove_space_dimensions (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.44.2.149 int ppl_Octagonal_Shape_int32_t_simplify_using_context_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.150 int ppl_Octagonal_Shape_int32_t_space_dimension (ppl_const_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.44.2.151 int ppl_Octagonal_Shape_int32_t_strictly_contains_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.152 int ppl_Octagonal_Shape_int32_t_time_elapse_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.153 int ppl_Octagonal_Shape_int32_t_topological_closure_assign (ppl_Octagonal_Shape_int32_t_t *ph*) [related]

10.44.2.154 int ppl_Octagonal_Shape_int32_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int32_t_t *ps*, size_t ∗ *sz*) [related]

10.44.2.155 int ppl_Octagonal_Shape_int32_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.44.2.156 int ppl_Octagonal_Shape_int32_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.44.2.157 int ppl_Octagonal_Shape_int32_t_upper_bound_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.158 int ppl_Octagonal_Shape_int32_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.159 int ppl_Octagonal_Shape_int32_t_widening_assign (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*) [related]

10.44.2.160 int ppl_Octagonal_Shape_int32_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int32_t_t *x*, ppl_const_Octagonal_Shape_int32_t_t *y*, unsigned ∗ *tp*) [related]

10.44.2.161 int ppl_Octagonal_Shape_int32_t_wrap_assign (ppl_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.44.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*, ppl_Generator_t *point*) [related]

10.44.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.44.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*, ppl_Generator_t *point*) [related]

10.44.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.44.2.166 int ppl_termination_test_MS_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*) [related]

10.44.2.167 int ppl_termination_test_MS_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*) [related]

10.44.2.168 int ppl_termination_test_PR_Octagonal_Shape_int32_t (ppl_const_Octagonal_Shape_int32_t_t *pset*) [related]

10.44.2.169 int ppl_termination_test_PR_Octagonal_Shape_int32_t_2 (ppl_const_Octagonal_Shape_int32_t_t *pset_before*, ppl_const_Octagonal_Shape_int32_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.45 ppl_Octagonal_Shape_int64_t_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_int64_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_space_dimension (ppl_Octagonal_Shape_int64_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_int64_t_from_Int8_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Int16_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Int32_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Int64_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint8_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint16_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint32_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint64_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Z_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Rational_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)

- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_C_Polyhedron (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Grid (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Float_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_float (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Double_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_double (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Long_Double_Box (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int64_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int64_t_from_Constraint_System (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Constraint_System_t cs)

- int ppl_new_Octagonal_Shape_int64_t_from_Congruence_System (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int64_t_from_Generator_System (ppl_Octagonal_Shape_int64_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_int64_t_space_dimension (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int64_t_affine_dimension (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int64_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int64_t_relation_with_Generator (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_int64_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int64_t_get_constraints (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int64_t_get_congruences (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int64_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int64_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int64_t_is_empty (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_is_universe (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_is_bounded (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_contains_integer_point (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_is_topologically_closed (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_is_discrete (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_topological_closure_assign (ppl_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_bounds_from_above (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int64_t_bounds_from_below (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int64_t_maximize (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int64_t_minimize (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int64_t_maximize_with_point (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int64_t_minimize_with_point (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int64_t_frequency (ppl_const_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_int64_t_contains_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_strictly_contains_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)

- int ppl_Octagonal_Shape_int64_t_is_disjoint_from_Octagonal_Shape_int64_t (ppl_const_-Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_equals_Octagonal_Shape_int64_t (ppl_const_Octagonal_-Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_OK (ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_Octagonal_Shape_int64_t_add_constraint (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_-Constraint_t c)
- int ppl_Octagonal_Shape_int64_t_add_congruence (ppl_Octagonal_Shape_int64_t_t ph, ppl_-const_Congruence_t c)
- int ppl_Octagonal_Shape_int64_t_add_constraints (ppl_Octagonal_Shape_int64_t_t ph, ppl_-const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int64_t_add_congruences (ppl_Octagonal_Shape_int64_t_t ph, ppl_-const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int64_t_refine_with_constraint (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int64_t_refine_with_congruence (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int64_t_refine_with_constraints (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int64_t_refine_with_congruences (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int64_t_intersection_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_-const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_upper_bound_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_-const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_difference_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_-const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_concatenate_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_-const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_time_elapse_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_-const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int64_t_-t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_simplify_using_context_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_constrains (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_-type var)
- int ppl_Octagonal_Shape_int64_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int64_t_-t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int64_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int64_t_affine_image (ppl_Octagonal_Shape_int64_t_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int64_t_affine_preimage (ppl_Octagonal_Shape_int64_t_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int64_t_bounded_affine_image (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int64_t_bounded_affine_preimage (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_Octagonal_Shape_int64_t_generalized_affine_image (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int64_t_generalized_affine_preimage (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int64_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int64_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int64_t_remove_space_dimensions (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int64_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int64_t_expand_space_dimension (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_int64_t_fold_space_dimensions (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int64_t_map_space_dimensions (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_int64_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_Octagonal_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_int64_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int64_t_t ps, size_t *sz)
- int ppl_Octagonal_Shape_int64_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int64_t_t ps, size_t *sz)
- int ppl_Octagonal_Shape_int64_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, unsigned *tp)
- int ppl_Octagonal_Shape_int64_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, unsigned *tp)
- int ppl_Octagonal_Shape_int64_t_widening_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_int64_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_int64_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, ppl_const_Constraint_System_t cs)

- int ppl_Octagonal_Shape_int64_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int64_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int64_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y)
- int ppl_Octagonal_Shape_int64_t_linear_partition (ppl_const_Octagonal_Shape_int64_t_t x, ppl_const_Octagonal_Shape_int64_t_t y, ppl_Octagonal_Shape_int64_t_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Octagonal_Shape_int64_t_wrap_assign (ppl_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_int64_t_recycle_Constraint_System (ppl_Octagonal_Shape_int64_t_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int64_t_recycle_Congruence_System (ppl_Octagonal_Shape_int64_t_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int64_t_recycle_Generator_System (ppl_Octagonal_Shape_int64_t_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t dst, ppl_const_Octagonal_Shape_int64_t_t src)
- int ppl_Octagonal_Shape_int64_t_add_recycled_constraints (ppl_Octagonal_Shape_int64_t_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int64_t_add_recycled_congruences (ppl_Octagonal_Shape_int64_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after, ppl_Polyhedron_t ph)

- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t pset_before, ppl_const_Octagonal_Shape_int64_t_t pset_after, ppl_Polyhedron_t ph)

10.45.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_int64_t_tag.

10.45.2 Friends And Related Function Documentation

10.45.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.45.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.45.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.45.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.45.2.5 int ppl_assign_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t *dst*, ppl_const_Octagonal_Shape_int64_t_t *src*) [related]

10.45.2.6 int ppl_delete_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.7 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_double (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.45.2.8 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.45.2.9 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_float (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.45.2.10 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.45.2.11 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.45.2.12 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.45.2.13 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.45.2.14 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.45.2.15 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.45.2.16 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.45.2.17 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.45.2.18 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.45.2.19 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.45.2.20 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.45.2.21 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.45.2.22 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.45.2.23 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.45.2.24 int ppl_new_Octagonal_Shape_int64_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.45.2.25 int ppl_new_Octagonal_Shape_int64_t_from_C_Polyhedron (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.45.2.26 int ppl_new_Octagonal_Shape_int64_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.45.2.27 int ppl_new_Octagonal_Shape_int64_t_from_Congruence_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.45.2.28 int ppl_new_Octagonal_Shape_int64_t_from_Constraint_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.45.2.29 int ppl_new_Octagonal_Shape_int64_t_from_Double_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.45.2.30 int ppl_new_Octagonal_Shape_int64_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.45.2.31 int ppl_new_Octagonal_Shape_int64_t_from_Float_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.45.2.32 int ppl_new_Octagonal_Shape_int64_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.45.2.33 int ppl_new_Octagonal_Shape_int64_t_from_Generator_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.45.2.34 int ppl_new_Octagonal_Shape_int64_t_from_Grid (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.45.2.35 int ppl_new_Octagonal_Shape_int64_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.45.2.36 int ppl_new_Octagonal_Shape_int64_t_from_Int16_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.45.2.37 int ppl_new_Octagonal_Shape_int64_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.45.2.38 int ppl_new_Octagonal_Shape_int64_t_from_Int32_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.45.2.39 int ppl_new_Octagonal_Shape_int64_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.45.2.40 int ppl_new_Octagonal_Shape_int64_t_from_Int64_Box (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.45.2.41 int ppl_new_Octagonal_Shape_int64_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.45.2.42 int ppl_new_Octagonal_Shape_int64_t_from_Int8_Box (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.45.2.43 int ppl_new_Octagonal_Shape_int64_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.45.2.44 int ppl_new_Octagonal_Shape_int64_t_from_Long_Double_Box (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.45.2.45 int ppl_new_Octagonal_Shape_int64_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.45.2.46 int ppl_new_Octagonal_Shape_int64_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.45.2.47 int ppl_new_Octagonal_Shape_int64_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.45.2.48 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.45.2.49 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-double_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.45.2.50 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.45.2.51 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.45.2.52 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.45.2.53 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.45.2.54 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.45.2.55 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.45.2.56 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.57 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.45.2.58 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.45.2.59 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.45.2.60 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.45.2.61 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.45.2.62 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.45.2.63 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.45.2.64 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.45.2.65 int ppl_new_Octagonal_Shape_int64_t_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.45.2.66 int ppl_new_Octagonal_Shape_int64_t_from_Rational_Box (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.45.2.67 int ppl_new_Octagonal_Shape_int64_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.45.2.68 int ppl_new_Octagonal_Shape_int64_t_from_space_dimension (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.45.2.69 int ppl_new_Octagonal_Shape_int64_t_from_Uint16_Box (ppl_-Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.45.2.70 int ppl_new_Octagonal_Shape_int64_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.45.2.71 int ppl_new_Octagonal_Shape_int64_t_from_Uint32_Box (ppl_-Octagonal_Shape_int64_t_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.45.2.72 int ppl_new_Octagonal_Shape_int64_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.45.2.73 int ppl_new_Octagonal_Shape_int64_t_from_Uint64_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.45.2.74 int ppl_new_Octagonal_Shape_int64_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.45.2.75 int ppl_new_Octagonal_Shape_int64_t_from_Uint8_Box (ppl_-Octagonal_Shape_int64_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.45.2.76 int ppl_new_Octagonal_Shape_int64_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.45.2.77 int ppl_new_Octagonal_Shape_int64_t_from_Z_Box (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.45.2.78 int ppl_new_Octagonal_Shape_int64_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.45.2.79 int ppl_new_Octagonal_Shape_int64_t_recycle_Congruence_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.45.2.80 int ppl_new_Octagonal_Shape_int64_t_recycle_Constraint_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.45.2.81 int ppl_new_Octagonal_Shape_int64_t_recycle_Generator_System (ppl_Octagonal_Shape_int64_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.45.2.82 int ppl_Octagonal_Shape_int64_t_add_congruence (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.45.2.83 int ppl_Octagonal_Shape_int64_t_add_congruences (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.45.2.84 int ppl_Octagonal_Shape_int64_t_add_constraint (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.45.2.85 int ppl_Octagonal_Shape_int64_t_add_constraints (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.45.2.86 int ppl_Octagonal_Shape_int64_t_add_recycled_congruences (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.45.2.87 int ppl_Octagonal_Shape_int64_t_add_recycled_constraints (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.45.2.88 int ppl_Octagonal_Shape_int64_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.45.2.89 int ppl_Octagonal_Shape_int64_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.45.2.90 int ppl_Octagonal_Shape_int64_t_affine_dimension (ppl_const_Octagonal_Shape_-int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.45.2.91 int ppl_Octagonal_Shape_int64_t_affine_image (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.45.2.92 int ppl_Octagonal_Shape_int64_t_affine_preimage (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.45.2.93 int ppl_Octagonal_Shape_int64_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.94 int ppl_Octagonal_Shape_int64_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, unsigned * *tp*) [related]

10.45.2.95 int ppl_Octagonal_Shape_int64_t_bounded_affine_image (ppl_Octagonal_-Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.45.2.96 int ppl_Octagonal_Shape_int64_t_bounded_affine_preimage (ppl_Octagonal_-Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.45.2.97 int ppl_Octagonal_Shape_int64_t_bounds_from_above (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.45.2.98 int ppl_Octagonal_Shape_int64_t_bounds_from_below (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.45.2.99 int ppl_Octagonal_Shape_int64_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.100 int ppl_Octagonal_Shape_int64_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, unsigned * *tp*) [related]

10.45.2.101 int ppl_Octagonal_Shape_int64_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.102 int ppl_Octagonal_Shape_int64_t_concatenate_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.103 int ppl_Octagonal_Shape_int64_t_constrains (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.45.2.104 int ppl_Octagonal_Shape_int64_t_contains_integer_point (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.105 int ppl_Octagonal_Shape_int64_t_contains_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.106 int ppl_Octagonal_Shape_int64_t_difference_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.107 int ppl_Octagonal_Shape_int64_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.45.2.108 int ppl_Octagonal_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.45.2.109 int ppl_Octagonal_Shape_int64_t_equals_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.110 int ppl_Octagonal_Shape_int64_t_expand_space_dimension (ppl_Octagonal_-Shape_int64_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.45.2.111 int ppl_Octagonal_Shape_int64_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.45.2.112 int ppl_Octagonal_Shape_int64_t_fold_space_dimensions (ppl_Octagonal_-Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.45.2.113 int ppl_Octagonal_Shape_int64_t_frequency (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.45.2.114 int ppl_Octagonal_Shape_int64_t_generalized_affine_image (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.45.2.115 int ppl_Octagonal_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.45.2.116 int ppl_Octagonal_Shape_int64_t_generalized_affine_preimage (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.45.2.117 int ppl_Octagonal_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.45.2.118 int ppl_Octagonal_Shape_int64_t_get_congruences (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.45.2.119 int ppl_Octagonal_Shape_int64_t_get_constraints (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.45.2.120 int ppl_Octagonal_Shape_int64_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.45.2.121 int ppl_Octagonal_Shape_int64_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.45.2.122 int ppl_Octagonal_Shape_int64_t_intersection_assign (ppl_Octagonal_-Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.123 int ppl_Octagonal_Shape_int64_t_is_bounded (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.124 int ppl_Octagonal_Shape_int64_t_is_discrete (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.125 int ppl_Octagonal_Shape_int64_t_is_disjoint_from_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.126 int ppl_Octagonal_Shape_int64_t_is_empty (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.127 int ppl_Octagonal_Shape_int64_t_is_topologically_closed (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.128 int ppl_Octagonal_Shape_int64_t_is_universe (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.129 int ppl_Octagonal_Shape_int64_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.45.2.130 int ppl_Octagonal_Shape_int64_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.45.2.131 int ppl_Octagonal_Shape_int64_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.45.2.132 int ppl_Octagonal_Shape_int64_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.45.2.133 int ppl_Octagonal_Shape_int64_t_linear_partition (ppl_const_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, ppl_Octagonal_Shape_int64_t_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.45.2.134 int ppl_Octagonal_Shape_int64_t_map_space_dimensions (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.45.2.135 int ppl_Octagonal_Shape_int64_t_maximize (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.45.2.136 int ppl_Octagonal_Shape_int64_t_maximize_with_point (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.45.2.137 int ppl_Octagonal_Shape_int64_t_minimize (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.45.2.138 int ppl_Octagonal_Shape_int64_t_minimize_with_point (ppl_const_Octagonal_-Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.45.2.139 int ppl_Octagonal_Shape_int64_t_OK (ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.140 int ppl_Octagonal_Shape_int64_t_refine_with_congruence (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.45.2.141 int ppl_Octagonal_Shape_int64_t_refine_with_congruences (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.45.2.142 int ppl_Octagonal_Shape_int64_t_refine_with_constraint (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.45.2.143 int ppl_Octagonal_Shape_int64_t_refine_with_constraints (ppl_-Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.45.2.144 int ppl_Octagonal_Shape_int64_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.45.2.145 int ppl_Octagonal_Shape_int64_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.45.2.146 int ppl_Octagonal_Shape_int64_t_relation_with_Generator (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.45.2.147 int ppl_Octagonal_Shape_int64_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.45.2.148 int ppl_Octagonal_Shape_int64_t_remove_space_dimensions (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.45.2.149 int ppl_Octagonal_Shape_int64_t_simplify_using_context_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.150 int ppl_Octagonal_Shape_int64_t_space_dimension (ppl_const_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.45.2.151 int ppl_Octagonal_Shape_int64_t_strictly_contains_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.152 int ppl_Octagonal_Shape_int64_t_time_elapse_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.153 int ppl_Octagonal_Shape_int64_t_topological_closure_assign (ppl_Octagonal_Shape_int64_t_t *ph*) [related]

10.45.2.154 int ppl_Octagonal_Shape_int64_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int64_t_t *ps*, size_t ∗ *sz*) [related]

10.45.2.155 int ppl_Octagonal_Shape_int64_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.45.2.156 int ppl_Octagonal_Shape_int64_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.45.2.157 int ppl_Octagonal_Shape_int64_t_upper_bound_assign (ppl_-Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.158 int ppl_Octagonal_Shape_int64_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.159 int ppl_Octagonal_Shape_int64_t_widening_assign (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*) [related]

10.45.2.160 int ppl_Octagonal_Shape_int64_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int64_t_t *x*, ppl_const_Octagonal_Shape_int64_t_t *y*, unsigned ∗ *tp*) [related]

10.45.2.161 int ppl_Octagonal_Shape_int64_t_wrap_assign (ppl_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.45.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*, ppl_Generator_t *point*) [related]

10.45.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.45.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*, ppl_Generator_t *point*) [related]

10.45.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.45.2.166 int ppl_termination_test_MS_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*) [related]

10.45.2.167 int ppl_termination_test_MS_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*) [related]

10.45.2.168 int ppl_termination_test_PR_Octagonal_Shape_int64_t (ppl_const_Octagonal_Shape_int64_t_t *pset*) [related]

10.45.2.169 int ppl_termination_test_PR_Octagonal_Shape_int64_t_2 (ppl_const_Octagonal_Shape_int64_t_t *pset_before*, ppl_const_Octagonal_Shape_int64_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.46 ppl_Octagonal_Shape_int8_t_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_int8_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_space_dimension (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_int8_t_from_Int8_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Int16_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Int32_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Int64_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint8_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint16_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint32_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint64_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Z_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Rational_Box (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Octagonal_Shape_int32_t_t ph)

- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_C_Polyhedron (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Grid (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Float_Box (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_float (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Double_Box (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_double (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Long_Double_Box (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_int8_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_int8_t_from_Constraint_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int8_t_from_Congruence_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Congruence_System_t cs)

- int ppl_new_Octagonal_Shape_int8_t_from_Generator_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_int8_t_space_dimension (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int8_t_affine_dimension (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_int8_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int8_t_relation_with_Generator (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_int8_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int8_t_get_constraints (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int8_t_get_congruences (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int8_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_int8_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_int8_t_is_empty (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_is_universe (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_is_bounded (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_contains_integer_point (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_is_topologically_closed (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_is_discrete (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_topological_closure_assign (ppl_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_bounds_from_above (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int8_t_bounds_from_below (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_int8_t_maximize (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int8_t_minimize (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_int8_t_maximize_with_point (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int8_t_minimize_with_point (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_int8_t_frequency (ppl_const_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_int8_t_contains_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_strictly_contains_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_is_disjoint_from_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)

- int ppl_Octagonal_Shape_int8_t_equals_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_OK (ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_Octagonal_Shape_int8_t_add_constraint (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int8_t_add_congruence (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int8_t_add_constraints (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int8_t_add_congruences (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int8_t_refine_with_constraint (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_int8_t_refine_with_congruence (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_int8_t_refine_with_constraints (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int8_t_refine_with_congruences (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_int8_t_intersection_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_upper_bound_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_difference_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_concatenate_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_time_elapse_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_simplify_using_context_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_constrains (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int8_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_int8_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int8_t_affine_image (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int8_t_affine_preimage (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int8_t_bounded_affine_image (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int8_t_bounded_affine_preimage (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int8_t_generalized_affine_image (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Octagonal_Shape_int8_t_generalized_affine_preimage (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_int8_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int8_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int8_t_remove_space_dimensions (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_int8_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int8_t_expand_space_dimension (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_int8_t_fold_space_dimensions (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_int8_t_map_space_dimensions (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_int8_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_Octagonal_Shape_int8_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_int8_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int8_t_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_int8_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int8_t_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_int8_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int8_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_int8_t_widening_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_int8_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_int8_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int8_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int8_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, unsigned ∗tp)

- int ppl_Octagonal_Shape_int8_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y)
- int ppl_Octagonal_Shape_int8_t_linear_partition (ppl_const_Octagonal_Shape_int8_t_t x, ppl_const_Octagonal_Shape_int8_t_t y, ppl_Octagonal_Shape_int8_t_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Octagonal_Shape_int8_t_wrap_assign (ppl_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_int8_t_recycle_Constraint_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_int8_t_recycle_Congruence_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_int8_t_recycle_Generator_System (ppl_Octagonal_Shape_int8_t_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t dst, ppl_const_Octagonal_Shape_int8_t_t src)
- int ppl_Octagonal_Shape_int8_t_add_recycled_constraints (ppl_Octagonal_Shape_int8_t_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_int8_t_add_recycled_congruences (ppl_Octagonal_Shape_int8_t_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t pset_before, ppl_const_Octagonal_Shape_int8_t_t pset_after, ppl_Polyhedron_t ph)

10.46.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_int8_t_tag.

10.46.2 Friends And Related Function Documentation

10.46.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.46.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_int8_t_2 (ppl_const_-Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.46.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.46.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_int8_t_2 (ppl_const_-Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.46.2.5 int ppl_assign_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t *dst*, ppl_const_Octagonal_Shape_int8_t_t *src*) [related]

10.46.2.6 int ppl_delete_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.46.2.7 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_double (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.46.2.8 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.46.2.9 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_float (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.46.2.10 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.46.2.11 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int16_t (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.46.2.12 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.46.2.13 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int32_t (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.46.2.14 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.46.2.15 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int64_t (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.46.2.16 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_int8_t_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.46.2.17 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.46.2.18 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.46.2.19 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_long_double (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.46.2.20 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.46.2.21 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.46.2.22 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.46.2.23 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.46.2.24 int ppl_new_Octagonal_Shape_int8_t_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.46.2.25 int ppl_new_Octagonal_Shape_int8_t_from_C_Polyhedron (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.46.2.26 int ppl_new_Octagonal_Shape_int8_t_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.46.2.27 int ppl_new_Octagonal_Shape_int8_t_from_Congruence_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.46.2.28 int ppl_new_Octagonal_Shape_int8_t_from_Constraint_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.46.2.29 int ppl_new_Octagonal_Shape_int8_t_from_Double_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.46.2.30 int ppl_new_Octagonal_Shape_int8_t_from_Double_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.46.2.31 int ppl_new_Octagonal_Shape_int8_t_from_Float_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.46.2.32 int ppl_new_Octagonal_Shape_int8_t_from_Float_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.46.2.33 int ppl_new_Octagonal_Shape_int8_t_from_Generator_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.46.2.34 int ppl_new_Octagonal_Shape_int8_t_from_Grid (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.46.2.35 int ppl_new_Octagonal_Shape_int8_t_from_Grid_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.46.2.36 int ppl_new_Octagonal_Shape_int8_t_from_Int16_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.46.2.37 int ppl_new_Octagonal_Shape_int8_t_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.46.2.38 int ppl_new_Octagonal_Shape_int8_t_from_Int32_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.46.2.39 int ppl_new_Octagonal_Shape_int8_t_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.46.2.40 int ppl_new_Octagonal_Shape_int8_t_from_Int64_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.46.2.41 int ppl_new_Octagonal_Shape_int8_t_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.46.2.42 int ppl_new_Octagonal_Shape_int8_t_from_Int8_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.46.2.43 int ppl_new_Octagonal_Shape_int8_t_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.46.2.44 int ppl_new_Octagonal_Shape_int8_t_from_Long_Double_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.46.2.45 int ppl_new_Octagonal_Shape_int8_t_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.46.2.46 int ppl_new_Octagonal_Shape_int8_t_from_NNC_Polyhedron (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.46.2.47 int ppl_new_Octagonal_Shape_int8_t_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.46.2.48 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_double (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.46.2.49 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.46.2.50 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_float (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.46.2.51 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.46.2.52 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.46.2.53 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.46.2.54 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.46.2.55 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.46.2.56 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.46.2.57 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.46.2.58 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.46.2.59 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.46.2.60 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.46.2.61 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.46.2.62 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.46.2.63 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.46.2.64 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.46.2.65 int ppl_new_Octagonal_Shape_int8_t_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.46.2.66 int ppl_new_Octagonal_Shape_int8_t_from_Rational_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.46.2.67 int ppl_new_Octagonal_Shape_int8_t_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.46.2.68 int ppl_new_Octagonal_Shape_int8_t_from_space_dimension (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.46.2.69 int ppl_new_Octagonal_Shape_int8_t_from_Uint16_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.46.2.70 int ppl_new_Octagonal_Shape_int8_t_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.46.2.71 int ppl_new_Octagonal_Shape_int8_t_from_Uint32_Box (ppl_-Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.46.2.72 int ppl_new_Octagonal_Shape_int8_t_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.46.2.73 int ppl_new_Octagonal_Shape_int8_t_from_Uint64_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.46.2.74 int ppl_new_Octagonal_Shape_int8_t_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.46.2.75 int ppl_new_Octagonal_Shape_int8_t_from_Uint8_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.46.2.76 int ppl_new_Octagonal_Shape_int8_t_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.46.2.77 int ppl_new_Octagonal_Shape_int8_t_from_Z_Box (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.46.2.78 int ppl_new_Octagonal_Shape_int8_t_from_Z_Box_with_complexity (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.46.2.79 int ppl_new_Octagonal_Shape_int8_t_recycle_Congruence_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.46.2.80 int ppl_new_Octagonal_Shape_int8_t_recycle_Constraint_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.46.2.81 int ppl_new_Octagonal_Shape_int8_t_recycle_Generator_System (ppl_Octagonal_Shape_int8_t_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.46.2.82 int ppl_Octagonal_Shape_int8_t_add_congruence (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.46.2.83 int ppl_Octagonal_Shape_int8_t_add_congruences (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.46.2.84 int ppl_Octagonal_Shape_int8_t_add_constraint (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.46.2.85 int ppl_Octagonal_Shape_int8_t_add_constraints (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.46.2.86 int ppl_Octagonal_Shape_int8_t_add_recycled_congruences (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.46.2.87 int ppl_Octagonal_Shape_int8_t_add_recycled_constraints (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.46.2.88 int ppl_Octagonal_Shape_int8_t_add_space_dimensions_and_embed (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.46.2.89 int ppl_Octagonal_Shape_int8_t_add_space_dimensions_and_project (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.46.2.90 int ppl_Octagonal_Shape_int8_t_affine_dimension (ppl_const_Octagonal_Shape_-int8_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.46.2.91 int ppl_Octagonal_Shape_int8_t_affine_image (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.46.2.92 int ppl_Octagonal_Shape_int8_t_affine_preimage (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.46.2.93 int ppl_Octagonal_Shape_int8_t_BHMZ05_widening_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.94 int ppl_Octagonal_Shape_int8_t_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, unsigned ∗ *tp*) [related]

10.46.2.95 int ppl_Octagonal_Shape_int8_t_bounded_affine_image (ppl_Octagonal_Shape_-int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.46.2.96 int ppl_Octagonal_Shape_int8_t_bounded_affine_preimage (ppl_Octagonal_-Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.46.2.97 int ppl_Octagonal_Shape_int8_t_bounds_from_above (ppl_const_-Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.46.2.98 int ppl_Octagonal_Shape_int8_t_bounds_from_below (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.46.2.99 int ppl_Octagonal_Shape_int8_t_CC76_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.100 int ppl_Octagonal_Shape_int8_t_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, unsigned * *tp*) [related]

10.46.2.101 int ppl_Octagonal_Shape_int8_t_CC76_narrowing_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.102 int ppl_Octagonal_Shape_int8_t_concatenate_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.103 int ppl_Octagonal_Shape_int8_t_constrains (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.46.2.104 int ppl_Octagonal_Shape_int8_t_contains_integer_point (ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.46.2.105 int ppl_Octagonal_Shape_int8_t_contains_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.106 int ppl_Octagonal_Shape_int8_t_difference_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.107 int ppl_Octagonal_Shape_int8_t_drop_some_non_integer_points (ppl_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.46.2.108 int ppl_Octagonal_Shape_int8_t_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.46.2.109 int ppl_Octagonal_Shape_int8_t_equals_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.110 int ppl_Octagonal_Shape_int8_t_expand_space_dimension (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.46.2.111 int ppl_Octagonal_Shape_int8_t_external_memory_in_bytes (ppl_const_Octagonal_Shape_int8_t_t *ps*, size_t ∗ *sz*) [related]

10.46.2.112 int ppl_Octagonal_Shape_int8_t_fold_space_dimensions (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.46.2.113 int ppl_Octagonal_Shape_int8_t_frequency (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.46.2.114 int ppl_Octagonal_Shape_int8_t_generalized_affine_image (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.46.2.115 int ppl_Octagonal_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.46.2.116 int ppl_Octagonal_Shape_int8_t_generalized_affine_preimage (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.46.2.117 int ppl_Octagonal_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.46.2.118 int ppl_Octagonal_Shape_int8_t_get_congruences (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.46.2.119 int ppl_Octagonal_Shape_int8_t_get_constraints (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.46.2.120 int ppl_Octagonal_Shape_int8_t_get_minimized_congruences (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.46.2.121 int ppl_Octagonal_Shape_int8_t_get_minimized_constraints (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.46.2.122 int ppl_Octagonal_Shape_int8_t_intersection_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) `[related]`

10.46.2.123 int ppl_Octagonal_Shape_int8_t_is_bounded (ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.46.2.124 int ppl_Octagonal_Shape_int8_t_is_discrete (ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.46.2.125 int ppl_Octagonal_Shape_int8_t_is_disjoint_from_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) `[related]`

10.46.2.126 int ppl_Octagonal_Shape_int8_t_is_empty (ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.46.2.127 int ppl_Octagonal_Shape_int8_t_is_topologically_closed (ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.46.2.128 int ppl_Octagonal_Shape_int8_t_is_universe (ppl_const_Octagonal_Shape_int8_t_t *ph*) `[related]`

10.46.2.129 int ppl_Octagonal_Shape_int8_t_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*) `[related]`

10.46.2.130 int ppl_Octagonal_Shape_int8_t_limited_BHMZ05_extrapolation_assign_with_-tokens (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) `[related]`

10.46.2.131 int ppl_Octagonal_Shape_int8_t_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.46.2.132 int ppl_Octagonal_Shape_int8_t_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.46.2.133 int ppl_Octagonal_Shape_int8_t_linear_partition (ppl_const_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, ppl_Octagonal_Shape_int8_t_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.46.2.134 int ppl_Octagonal_Shape_int8_t_map_space_dimensions (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.46.2.135 int ppl_Octagonal_Shape_int8_t_maximize (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.46.2.136 int ppl_Octagonal_Shape_int8_t_maximize_with_point (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.46.2.137 int ppl_Octagonal_Shape_int8_t_minimize (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.46.2.138 int ppl_Octagonal_Shape_int8_t_minimize_with_point (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.46.2.139 int ppl_Octagonal_Shape_int8_t_OK (ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.46.2.140 int ppl_Octagonal_Shape_int8_t_refine_with_congruence (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.46.2.141 int ppl_Octagonal_Shape_int8_t_refine_with_congruences (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.46.2.142 int ppl_Octagonal_Shape_int8_t_refine_with_constraint (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.46.2.143 int ppl_Octagonal_Shape_int8_t_refine_with_constraints (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.46.2.144 int ppl_Octagonal_Shape_int8_t_relation_with_Congruence (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.46.2.145 int ppl_Octagonal_Shape_int8_t_relation_with_Constraint (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.46.2.146 int ppl_Octagonal_Shape_int8_t_relation_with_Generator (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.46.2.147 int ppl_Octagonal_Shape_int8_t_remove_higher_space_dimensions (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.46.2.148 int ppl_Octagonal_Shape_int8_t_remove_space_dimensions (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.46.2.149 int ppl_Octagonal_Shape_int8_t_simplify_using_context_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.150 int ppl_Octagonal_Shape_int8_t_space_dimension (ppl_const_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type * *m*) [related]

10.46.2.151 int ppl_Octagonal_Shape_int8_t_strictly_contains_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.152 int ppl_Octagonal_Shape_int8_t_time_elapse_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.153 int ppl_Octagonal_Shape_int8_t_topological_closure_assign (ppl_Octagonal_Shape_int8_t_t *ph*) [related]

10.46.2.154 int ppl_Octagonal_Shape_int8_t_total_memory_in_bytes (ppl_const_Octagonal_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.46.2.155 int ppl_Octagonal_Shape_int8_t_unconstrain_space_dimension (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.46.2.156 int ppl_Octagonal_Shape_int8_t_unconstrain_space_dimensions (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.46.2.157 int ppl_Octagonal_Shape_int8_t_upper_bound_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.158 int ppl_Octagonal_Shape_int8_t_upper_bound_assign_if_exact (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.159 int ppl_Octagonal_Shape_int8_t_widening_assign (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*) [related]

10.46.2.160 int ppl_Octagonal_Shape_int8_t_widening_assign_with_tokens (ppl_Octagonal_Shape_int8_t_t *x*, ppl_const_Octagonal_Shape_int8_t_t *y*, unsigned ∗ *tp*) [related]

10.46.2.161 int ppl_Octagonal_Shape_int8_t_wrap_assign (ppl_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.46.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*, ppl_Generator_t *point*) [related]

10.46.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.46.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*, ppl_Generator_t *point*) [related]

10.46.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*, ppl_Generator_t *point*) [related]

10.46.2.166 int ppl_termination_test_MS_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*) [related]

10.46.2.167 int ppl_termination_test_MS_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*) [related]

10.46.2.168 int ppl_termination_test_PR_Octagonal_Shape_int8_t (ppl_const_Octagonal_Shape_int8_t_t *pset*) [related]

10.46.2.169 int ppl_termination_test_PR_Octagonal_Shape_int8_t_2 (ppl_const_Octagonal_Shape_int8_t_t *pset_before*, ppl_const_Octagonal_Shape_int8_t_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.47 ppl_Octagonal_Shape_long_double_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_space_dimension (ppl_Octagonal_Shape_long_double_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_long_double_from_Int8_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Int16_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int16_Box_t ph)

- int ppl_new_Octagonal_Shape_long_double_from_Int32_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Int64_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Uint8_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Uint16_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Uint32_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Uint64_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Z_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Rational_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int8_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int16_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int32_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int64_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_C_Polyhedron (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_NNC_Polyhedron (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Grid (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Float_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_float (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_float (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_float_t ph)

- int ppl_new_Octagonal_Shape_long_double_from_Double_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_double (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Long_Double_Box (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_long_double (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_long_double_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Z_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_C_Polyhedron_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_NNC_Polyhedron_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Grid_with_complexity (ppl_Octagonal_Shape_-long_double_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Float_Box_with_complexity (ppl_Octagonal_-Shape_long_double_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_float_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_float_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Double_Box_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_double_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Long_Double_Box_with_complexity (ppl_-Octagonal_Shape_long_double_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double_with_-complexity (ppl_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_-double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_long_double_from_Constraint_System (ppl_Octagonal_Shape_-long_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_long_double_from_Congruence_System (ppl_Octagonal_Shape_-long_double_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_long_double_from_Generator_System (ppl_Octagonal_Shape_-long_double_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_long_double_space_dimension (ppl_const_Octagonal_Shape_long_-double_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_long_double_affine_dimension (ppl_const_Octagonal_Shape_long_-double_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_long_double_relation_with_Constraint (ppl_const_Octagonal_Shape_-long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_long_double_relation_with_Generator (ppl_const_Octagonal_Shape_-long_double_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_long_double_relation_with_Congruence (ppl_const_Octagonal_Shape_-long_double_t ph, ppl_const_Congruence_t c)

- int ppl_Octagonal_Shape_long_double_get_constraints (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_long_double_get_congruences (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_long_double_get_minimized_constraints (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_long_double_get_minimized_congruences (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_long_double_is_empty (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_is_universe (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_is_bounded (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_contains_integer_point (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_is_topologically_closed (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_is_discrete (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_topological_closure_assign (ppl_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_bounds_from_above (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_long_double_bounds_from_below (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_long_double_maximize (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_long_double_minimize (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_long_double_maximize_with_point (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_long_double_minimize_with_point (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_long_double_frequency (ppl_const_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_long_double_contains_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_strictly_contains_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_is_disjoint_from_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_equals_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_OK (ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_Octagonal_Shape_long_double_add_constraint (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_long_double_add_congruence (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_t c)

- int ppl_Octagonal_Shape_long_double_add_constraints (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_long_double_add_congruences (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_long_double_refine_with_constraint (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_long_double_refine_with_congruence (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_long_double_refine_with_constraints (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_long_double_refine_with_congruences (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_long_double_intersection_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_upper_bound_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_difference_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_concatenate_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_time_elapse_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_upper_bound_assign_if_exact (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_simplify_using_context_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_constrains (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_long_double_unconstrain_space_dimension (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_long_double_unconstrain_space_dimensions (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_long_double_affine_image (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_affine_preimage (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_bounded_affine_image (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_bounded_affine_preimage (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_generalized_affine_image (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_generalized_affine_preimage (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Octagonal_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_long_double_add_space_dimensions_and_embed (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_long_double_add_space_dimensions_and_project (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_long_double_remove_space_dimensions (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_long_double_remove_higher_space_dimensions (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_long_double_expand_space_dimension (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_long_double_fold_space_dimensions (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_long_double_map_space_dimensions (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_long_double_drop_some_non_integer_points (ppl_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_Octagonal_Shape_long_double_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_long_double_external_memory_in_bytes (ppl_const_Octagonal_Shape_long_double_t ps, size_t *sz)
- int ppl_Octagonal_Shape_long_double_total_memory_in_bytes (ppl_const_Octagonal_Shape_long_double_t ps, size_t *sz)
- int ppl_Octagonal_Shape_long_double_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_long_double_BHMZ05_widening_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_widening_assign_with_tokens (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_long_double_widening_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_long_double_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Octagonal_Shape_long_double_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_long_double_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_long_double_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, unsigned *tp)
- int ppl_Octagonal_Shape_long_double_CC76_extrapolation_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)
- int ppl_Octagonal_Shape_long_double_CC76_narrowing_assign (ppl_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y)

- int ppl_Octagonal_Shape_long_double_linear_partition (ppl_const_Octagonal_Shape_long_double_t x, ppl_const_Octagonal_Shape_long_double_t y, ppl_Octagonal_Shape_long_double_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Octagonal_Shape_long_double_wrap_assign (ppl_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_long_double_recycle_Constraint_System (ppl_Octagonal_Shape_long_double_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_long_double_recycle_Congruence_System (ppl_Octagonal_Shape_long_double_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_long_double_recycle_Generator_System (ppl_Octagonal_Shape_long_double_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_long_double_t dst, ppl_const_Octagonal_Shape_long_double_t src)
- int ppl_Octagonal_Shape_long_double_add_recycled_constraints (ppl_Octagonal_Shape_long_double_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_long_double_add_recycled_congruences (ppl_Octagonal_Shape_long_double_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t pset_before, ppl_const_Octagonal_Shape_long_double_t pset_after, ppl_Polyhedron_t ph)

10.47.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_long_double_tag.

10.47.2 Friends And Related Function Documentation

10.47.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.47.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_-Octagonal_Shape_long_double_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.47.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.47.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_-Octagonal_Shape_long_double_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.47.2.5 int ppl_assign_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_long_double_t *dst*, ppl_const_Octagonal_Shape_long_double_t *src*) `[related]`

10.47.2.6 int ppl_delete_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_-double_t *ph*) `[related]`

10.47.2.7 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_double (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.47.2.8 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) `[related]`

10.47.2.9 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_float (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.47.2.10 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.47.2.11 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int16_t (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.47.2.12 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.47.2.13 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int32_t (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.47.2.14 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.47.2.15 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int64_t (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.47.2.16 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.47.2.17 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int8_t (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.47.2.18 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.47.2.19 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_long_double (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.47.2.20 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_long_-double_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.47.2.21 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.47.2.22 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpq_-class_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.47.2.23 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.47.2.24 int ppl_new_Octagonal_Shape_long_double_from_BD_Shape_mpz_-class_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.47.2.25 int ppl_new_Octagonal_Shape_long_double_from_C_Polyhedron (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.47.2.26 int ppl_new_Octagonal_Shape_long_double_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.47.2.27 int ppl_new_Octagonal_Shape_long_double_from_Congruence_System (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.47.2.28 int ppl_new_Octagonal_Shape_long_double_from_Constraint_System (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.47.2.29 int ppl_new_Octagonal_Shape_long_double_from_Double_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.47.2.30 int ppl_new_Octagonal_Shape_long_double_from_Double_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.47.2.31 int ppl_new_Octagonal_Shape_long_double_from_Float_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.47.2.32 int ppl_new_Octagonal_Shape_long_double_from_Float_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.47.2.33 int ppl_new_Octagonal_Shape_long_double_from_Generator_System (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.47.2.34 int ppl_new_Octagonal_Shape_long_double_from_Grid (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.47.2.35 int ppl_new_Octagonal_Shape_long_double_from_Grid_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.47.2.36 int ppl_new_Octagonal_Shape_long_double_from_Int16_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.47.2.37 int ppl_new_Octagonal_Shape_long_double_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.47.2.38 int ppl_new_Octagonal_Shape_long_double_from_Int32_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.47.2.39 int ppl_new_Octagonal_Shape_long_double_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.47.2.40 int ppl_new_Octagonal_Shape_long_double_from_Int64_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.47.2.41 int ppl_new_Octagonal_Shape_long_double_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.47.2.42 int ppl_new_Octagonal_Shape_long_double_from_Int8_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.47.2.43 int ppl_new_Octagonal_Shape_long_double_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.47.2.44 int ppl_new_Octagonal_Shape_long_double_from_Long_Double_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.47.2.45 int ppl_new_Octagonal_Shape_long_double_from_Long_Double_-Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.47.2.46 int ppl_new_Octagonal_Shape_long_double_from_NNC_Polyhedron (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.47.2.47 int ppl_new_Octagonal_Shape_long_double_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.47.2.48 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_double (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.47.2.49 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.47.2.50 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_float (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.47.2.51 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.47.2.52 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.47.2.53 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.47.2.54 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.47.2.55 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.47.2.56 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.47.2.57 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.47.2.58 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.47.2.59 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.47.2.60 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_-Shape_long_double (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.47.2.61 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.47.2.62 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpq_class (ppl_-Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.47.2.63 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.47.2.64 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.47.2.65 int ppl_new_Octagonal_Shape_long_double_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.47.2.66 int ppl_new_Octagonal_Shape_long_double_from_Rational_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.47.2.67 int ppl_new_Octagonal_Shape_long_double_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.47.2.68 int ppl_new_Octagonal_Shape_long_double_from_space_dimension (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.47.2.69 int ppl_new_Octagonal_Shape_long_double_from_Uint16_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.47.2.70 int ppl_new_Octagonal_Shape_long_double_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.47.2.71 int ppl_new_Octagonal_Shape_long_double_from_Uint32_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.47.2.72 int ppl_new_Octagonal_Shape_long_double_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.47.2.73 int ppl_new_Octagonal_Shape_long_double_from_Uint64_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.47.2.74 int ppl_new_Octagonal_Shape_long_double_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.47.2.75 int ppl_new_Octagonal_Shape_long_double_from_Uint8_Box (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.47.2.76 int ppl_new_Octagonal_Shape_long_double_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.47.2.77 int ppl_new_Octagonal_Shape_long_double_from_Z_Box (ppl_-Octagonal_Shape_long_double_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.47.2.78 int ppl_new_Octagonal_Shape_long_double_from_Z_Box_with_complexity (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.47.2.79 int ppl_new_Octagonal_Shape_long_double_recycle_Congruence_System (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.47.2.80 int ppl_new_Octagonal_Shape_long_double_recycle_Constraint_System (ppl_Octagonal_Shape_long_double_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.47.2.81 int ppl_new_Octagonal_Shape_long_double_recycle_Generator_System (ppl_Octagonal_Shape_long_double_t ∗ *pph*, ppl_Generator_System_t *cs*) [related]

10.47.2.82 int ppl_Octagonal_Shape_long_double_add_congruence (ppl_-Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.47.2.83 int ppl_Octagonal_Shape_long_double_add_congruences (ppl_-Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.47.2.84 int ppl_Octagonal_Shape_long_double_add_constraint (ppl_-Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.47.2.85 int ppl_Octagonal_Shape_long_double_add_constraints (ppl_-Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.47.2.86 int ppl_Octagonal_Shape_long_double_add_recycled_congruences (ppl_Octagonal_Shape_long_double_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.47.2.87 int ppl_Octagonal_Shape_long_double_add_recycled_constraints (ppl_Octagonal_Shape_long_double_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.47.2.88 int ppl_Octagonal_Shape_long_double_add_space_dimensions_and_embed (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.47.2.89 int ppl_Octagonal_Shape_long_double_add_space_dimensions_and_project (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.47.2.90 int ppl_Octagonal_Shape_long_double_affine_dimension (ppl_const_-Octagonal_Shape_long_double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.47.2.91 int ppl_Octagonal_Shape_long_double_affine_image (ppl_Octagonal_Shape_-long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.47.2.92 int ppl_Octagonal_Shape_long_double_affine_preimage (ppl_Octagonal_Shape_-long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.47.2.93 int ppl_Octagonal_Shape_long_double_BHMZ05_widening_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.94 int ppl_Octagonal_Shape_long_double_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, unsigned ∗ *tp*) [related]

10.47.2.95 int ppl_Octagonal_Shape_long_double_bounded_affine_image (ppl_Octagonal_-Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.47.2.96 int ppl_Octagonal_Shape_long_double_bounded_affine_preimage (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.47.2.97 int ppl_Octagonal_Shape_long_double_bounds_from_above (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.47.2.98 int ppl_Octagonal_Shape_long_double_bounds_from_below (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.47.2.99 int ppl_Octagonal_Shape_long_double_CC76_extrapolation_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.100 int ppl_Octagonal_Shape_long_double_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, unsigned * *tp*) [related]

10.47.2.101 int ppl_Octagonal_Shape_long_double_CC76_narrowing_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.102 int ppl_Octagonal_Shape_long_double_concatenate_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.103 int ppl_Octagonal_Shape_long_double_constrains (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.47.2.104 int ppl_Octagonal_Shape_long_double_contains_integer_point (ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.47.2.105 int ppl_Octagonal_Shape_long_double_contains_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.106 int ppl_Octagonal_Shape_long_double_difference_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.107 int ppl_Octagonal_Shape_long_double_drop_some_non_integer_points (ppl_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.47.2.108 int ppl_Octagonal_Shape_long_double_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.47.2.109 int ppl_Octagonal_Shape_long_double_equals_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.110 int ppl_Octagonal_Shape_long_double_expand_space_dimension (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.47.2.111 int ppl_Octagonal_Shape_long_double_external_memory_in_bytes (ppl_const_Octagonal_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.47.2.112 int ppl_Octagonal_Shape_long_double_fold_space_dimensions (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.47.2.113 int ppl_Octagonal_Shape_long_double_frequency (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.47.2.114 int ppl_Octagonal_Shape_long_double_generalized_affine_image (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.47.2.115 int ppl_Octagonal_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.47.2.116 int ppl_Octagonal_Shape_long_double_generalized_affine_preimage (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.47.2.117 int ppl_Octagonal_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.47.2.118 int ppl_Octagonal_Shape_long_double_get_congruences (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.47.2.119 int ppl_Octagonal_Shape_long_double_get_constraints (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.47.2.120 int ppl_Octagonal_Shape_long_double_get_minimized_congruences (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.47.2.121 int ppl_Octagonal_Shape_long_double_get_minimized_constraints (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.47.2.122 int ppl_Octagonal_Shape_long_double_intersection_assign (ppl_Octagonal_-Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.123 int ppl_Octagonal_Shape_long_double_is_bounded (ppl_const_Octagonal_Shape_-long_double_t *ph*) [related]

10.47.2.124 int ppl_Octagonal_Shape_long_double_is_discrete (ppl_const_Octagonal_Shape_-long_double_t *ph*) [related]

10.47.2.125 int ppl_Octagonal_Shape_long_double_is_disjoint_from_Octagonal_-Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.126 int ppl_Octagonal_Shape_long_double_is_empty (ppl_const_Octagonal_Shape_long_-double_t *ph*) [related]

10.47.2.127 int ppl_Octagonal_Shape_long_double_is_topologically_closed (ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.47.2.128 int ppl_Octagonal_Shape_long_double_is_universe (ppl_const_Octagonal_Shape_-long_double_t *ph*) [related]

10.47.2.129 int ppl_Octagonal_Shape_long_double_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.47.2.130 int ppl_Octagonal_Shape_long_double_limited_BHMZ05_extrapolation_-assign_with_tokens (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.47.2.131 int ppl_Octagonal_Shape_long_double_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.47.2.132 int ppl_Octagonal_Shape_long_double_limited_CC76_extrapolation_-assign_with_tokens (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.47.2.133 int ppl_Octagonal_Shape_long_double_linear_partition (ppl_const_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_-Shape_long_double_t *y*, ppl_Octagonal_Shape_long_double_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.47.2.134 int ppl_Octagonal_Shape_long_double_map_space_dimensions (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.47.2.135 int ppl_Octagonal_Shape_long_double_maximize (ppl_const_Octagonal_Shape_-long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.47.2.136 int ppl_Octagonal_Shape_long_double_maximize_with_point (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.47.2.137 int ppl_Octagonal_Shape_long_double_minimize (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.47.2.138 int ppl_Octagonal_Shape_long_double_minimize_with_point (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.47.2.139 int ppl_Octagonal_Shape_long_double_OK (ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.47.2.140 int ppl_Octagonal_Shape_long_double_refine_with_congruence (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.47.2.141 int ppl_Octagonal_Shape_long_double_refine_with_congruences (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.47.2.142 int ppl_Octagonal_Shape_long_double_refine_with_constraint (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.47.2.143 int ppl_Octagonal_Shape_long_double_refine_with_constraints (ppl_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.47.2.144 int ppl_Octagonal_Shape_long_double_relation_with_Congruence (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.47.2.145 int ppl_Octagonal_Shape_long_double_relation_with_Constraint (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.47.2.146 int ppl_Octagonal_Shape_long_double_relation_with_Generator (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.47.2.147 int ppl_Octagonal_Shape_long_double_remove_higher_space_dimensions (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.47.2.148 int ppl_Octagonal_Shape_long_double_remove_space_dimensions (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.47.2.149 int ppl_Octagonal_Shape_long_double_simplify_using_context_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.150 int ppl_Octagonal_Shape_long_double_space_dimension (ppl_const_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type * *m*) [related]

10.47.2.151 int ppl_Octagonal_Shape_long_double_strictly_contains_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.152 int ppl_Octagonal_Shape_long_double_time_elapse_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.153 int ppl_Octagonal_Shape_long_double_topological_closure_assign (ppl_Octagonal_Shape_long_double_t *ph*) [related]

10.47.2.154 int ppl_Octagonal_Shape_long_double_total_memory_in_bytes (ppl_const_Octagonal_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.47.2.155 int ppl_Octagonal_Shape_long_double_unconstrain_space_dimension (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.47.2.156 int ppl_Octagonal_Shape_long_double_unconstrain_space_dimensions (ppl_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.47.2.157 int ppl_Octagonal_Shape_long_double_upper_bound_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.158 int ppl_Octagonal_Shape_long_double_upper_bound_assign_if_exact (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.159 int ppl_Octagonal_Shape_long_double_widening_assign (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*) [related]

10.47.2.160 int ppl_Octagonal_Shape_long_double_widening_assign_with_tokens (ppl_Octagonal_Shape_long_double_t *x*, ppl_const_Octagonal_Shape_long_double_t *y*, unsigned ∗ *tp*) [related]

10.47.2.161 int ppl_Octagonal_Shape_long_double_wrap_assign (ppl_Octagonal_-Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_-Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.47.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*, ppl_Generator_t *point*) [related]

10.47.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_-Octagonal_Shape_long_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.47.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*, ppl_Generator_t *point*) [related]

10.47.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_-Octagonal_Shape_long_double_t *pset_after*, ppl_Generator_t *point*) [related]

10.47.2.166 int ppl_termination_test_MS_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*) [related]

10.47.2.167 int ppl_termination_test_MS_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_Octagonal_Shape_long_double_t *pset_after*) [related]

10.47.2.168 int ppl_termination_test_PR_Octagonal_Shape_long_double (ppl_const_Octagonal_Shape_long_double_t *pset*) [related]

10.47.2.169 int ppl_termination_test_PR_Octagonal_Shape_long_double_2 (ppl_const_Octagonal_Shape_long_double_t *pset_before*, ppl_const_Octagonal_Shape_long_double_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.48 ppl_Octagonal_Shape_mpq_class_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_space_dimension (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int8_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int16_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int32_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int64_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint8_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint16_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint32_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint64_Box (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Uint64_Box_t ph)

- int ppl_new_Octagonal_Shape_mpq_class_from_Z_Box (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Rational_Box (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int8_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int16_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int32_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int64_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_C_Polyhedron (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_NNC_Polyhedron (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Grid (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Float_Box (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_float (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_float (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Double_Box (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_double (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_double (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Long_Double_Box (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_long_double (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)

- int ppl_new_Octagonal_Shape_mpq_class_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Z_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpq_class_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpq_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)

- int ppl_Octagonal_Shape_mpq_class_contains_integer_point (ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_Octagonal_Shape_mpq_class_is_topologically_closed (ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_Octagonal_Shape_mpq_class_is_discrete (ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_Octagonal_Shape_mpq_class_topological_closure_assign (ppl_Octagonal_Shape_mpq_class_t ph)
- int ppl_Octagonal_Shape_mpq_class_bounds_from_above (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_mpq_class_bounds_from_below (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_mpq_class_maximize (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_mpq_class_minimize (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_mpq_class_maximize_with_point (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_mpq_class_minimize_with_point (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_mpq_class_frequency (ppl_const_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_mpq_class_contains_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_strictly_contains_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_is_disjoint_from_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_equals_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_OK (ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_Octagonal_Shape_mpq_class_add_constraint (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_mpq_class_add_congruence (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_mpq_class_add_constraints (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_add_congruences (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_refine_with_constraint (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_mpq_class_refine_with_congruence (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_mpq_class_refine_with_constraints (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_refine_with_congruences (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_intersection_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)

- int ppl_Octagonal_Shape_mpq_class_upper_bound_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_difference_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_concatenate_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_time_elapse_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_simplify_using_context_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_constrains (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_mpq_class_unconstrain_space_dimension (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_mpq_class_unconstrain_space_dimensions (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_mpq_class_affine_image (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_affine_preimage (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_bounded_affine_image (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_bounded_affine_preimage (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_generalized_affine_image (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_generalized_affine_preimage (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_mpq_class_add_space_dimensions_and_embed (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpq_class_add_space_dimensions_and_project (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpq_class_remove_space_dimensions (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_mpq_class_remove_higher_space_dimensions (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpq_class_expand_space_dimension (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_mpq_class_fold_space_dimensions (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)

- int ppl_Octagonal_Shape_mpq_class_map_space_dimensions (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_mpq_class_drop_some_non_integer_points (ppl_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_Octagonal_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_mpq_class_external_memory_in_bytes (ppl_const_Octagonal_Shape_mpq_class_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_mpq_class_total_memory_in_bytes (ppl_const_Octagonal_Shape_mpq_class_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_mpq_class_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpq_class_BHMZ05_widening_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_widening_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpq_class_widening_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpq_class_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpq_class_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpq_class_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_CC76_narrowing_assign (ppl_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y)
- int ppl_Octagonal_Shape_mpq_class_linear_partition (ppl_const_Octagonal_Shape_mpq_class_t x, ppl_const_Octagonal_Shape_mpq_class_t y, ppl_Octagonal_Shape_mpq_class_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Octagonal_Shape_mpq_class_wrap_assign (ppl_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_mpq_class_recycle_Constraint_System (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_mpq_class_recycle_Congruence_System (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_mpq_class_recycle_Generator_System (ppl_Octagonal_Shape_mpq_class_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t dst, ppl_const_Octagonal_Shape_mpq_class_t src)

- int ppl_Octagonal_Shape_mpq_class_add_recycled_constraints (ppl_Octagonal_Shape_mpq_-class_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpq_class_add_recycled_congruences (ppl_Octagonal_Shape_mpq_-class_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_-class_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_-class_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_-Shape_mpq_class_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_-Shape_mpq_class_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_-Shape_mpq_class_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_-Shape_mpq_class_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_-class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_-class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_-Shape_mpq_class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after, ppl_-Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_-Shape_mpq_class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after, ppl_-Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_-Shape_mpq_class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after, ppl_-Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_-Shape_mpq_class_t pset_before, ppl_const_Octagonal_Shape_mpq_class_t pset_after, ppl_-Polyhedron_t ph)

10.48.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_mpq_class_tag.

10.48.2 Friends And Related Function Documentation

10.48.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.48.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpq_class_2 (ppl_const_-Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.48.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.48.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpq_class_2 (ppl_const_-Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.48.2.5 int ppl_assign_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t *dst*, ppl_const_Octagonal_Shape_mpq_class_t *src*) [related]

10.48.2.6 int ppl_delete_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.7 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_double (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.48.2.8 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.48.2.9 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_float (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.48.2.10 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.48.2.11 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int16_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.48.2.12 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.48.2.13 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int32_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.48.2.14 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.48.2.15 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int64_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.48.2.16 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.48.2.17 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int8_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.48.2.18 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.48.2.19 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_long_double (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.48.2.20 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.48.2.21 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.48.2.22 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.48.2.23 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.48.2.24 int ppl_new_Octagonal_Shape_mpq_class_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.48.2.25 int ppl_new_Octagonal_Shape_mpq_class_from_C_Polyhedron (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.48.2.26 int ppl_new_Octagonal_Shape_mpq_class_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.48.2.27 int ppl_new_Octagonal_Shape_mpq_class_from_Congruence_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.48.2.28 int ppl_new_Octagonal_Shape_mpq_class_from_Constraint_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.48.2.29 int ppl_new_Octagonal_Shape_mpq_class_from_Double_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.48.2.30 int ppl_new_Octagonal_Shape_mpq_class_from_Double_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.48.2.31 int ppl_new_Octagonal_Shape_mpq_class_from_Float_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.48.2.32 int ppl_new_Octagonal_Shape_mpq_class_from_Float_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.48.2.33 int ppl_new_Octagonal_Shape_mpq_class_from_Generator_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.48.2.34 int ppl_new_Octagonal_Shape_mpq_class_from_Grid (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.48.2.35 int ppl_new_Octagonal_Shape_mpq_class_from_Grid_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.48.2.36 int ppl_new_Octagonal_Shape_mpq_class_from_Int16_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.48.2.37 int ppl_new_Octagonal_Shape_mpq_class_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.48.2.38 int ppl_new_Octagonal_Shape_mpq_class_from_Int32_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.48.2.39 int ppl_new_Octagonal_Shape_mpq_class_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.48.2.40 int ppl_new_Octagonal_Shape_mpq_class_from_Int64_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.48.2.41 int ppl_new_Octagonal_Shape_mpq_class_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.48.2.42 int ppl_new_Octagonal_Shape_mpq_class_from_Int8_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.48.2.43 int ppl_new_Octagonal_Shape_mpq_class_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.48.2.44 int ppl_new_Octagonal_Shape_mpq_class_from_Long_Double_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.48.2.45 int ppl_new_Octagonal_Shape_mpq_class_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.48.2.46 int ppl_new_Octagonal_Shape_mpq_class_from_NNC_Polyhedron (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.48.2.47 int ppl_new_Octagonal_Shape_mpq_class_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.48.2.48 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_double (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.48.2.49 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_-double_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.48.2.50 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_float (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.48.2.51 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.48.2.52 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.48.2.53 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.48.2.54 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.48.2.55 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.48.2.56 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.48.2.57 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.48.2.58 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.48.2.59 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.48.2.60 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_long_double (ppl_-Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.48.2.61 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.48.2.62 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.63 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.48.2.64 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.48.2.65 int ppl_new_Octagonal_Shape_mpq_class_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.48.2.66 int ppl_new_Octagonal_Shape_mpq_class_from_Rational_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.48.2.67 int ppl_new_Octagonal_Shape_mpq_class_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.48.2.68 int ppl_new_Octagonal_Shape_mpq_class_from_space_dimension (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.48.2.69 int ppl_new_Octagonal_Shape_mpq_class_from_Uint16_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.48.2.70 int ppl_new_Octagonal_Shape_mpq_class_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.48.2.71 int ppl_new_Octagonal_Shape_mpq_class_from_Uint32_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.48.2.72 int ppl_new_Octagonal_Shape_mpq_class_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.48.2.73 int ppl_new_Octagonal_Shape_mpq_class_from_Uint64_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.48.2.74 int ppl_new_Octagonal_Shape_mpq_class_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.48.2.75 int ppl_new_Octagonal_Shape_mpq_class_from_Uint8_Box (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.48.2.76 int ppl_new_Octagonal_Shape_mpq_class_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.48.2.77 int ppl_new_Octagonal_Shape_mpq_class_from_Z_Box (ppl_-Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.48.2.78 int ppl_new_Octagonal_Shape_mpq_class_from_Z_Box_with_complexity (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.48.2.79 int ppl_new_Octagonal_Shape_mpq_class_recycle_Congruence_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.48.2.80 int ppl_new_Octagonal_Shape_mpq_class_recycle_Constraint_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.48.2.81 int ppl_new_Octagonal_Shape_mpq_class_recycle_Generator_System (ppl_Octagonal_Shape_mpq_class_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.48.2.82 int ppl_Octagonal_Shape_mpq_class_add_congruence (ppl_-Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.48.2.83 int ppl_Octagonal_Shape_mpq_class_add_congruences (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.48.2.84 int ppl_Octagonal_Shape_mpq_class_add_constraint (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.48.2.85 int ppl_Octagonal_Shape_mpq_class_add_constraints (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.48.2.86 int ppl_Octagonal_Shape_mpq_class_add_recycled_congruences (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.48.2.87 int ppl_Octagonal_Shape_mpq_class_add_recycled_constraints (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.48.2.88 int ppl_Octagonal_Shape_mpq_class_add_space_dimensions_and_embed (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.48.2.89 int ppl_Octagonal_Shape_mpq_class_add_space_dimensions_and_project (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.48.2.90 int ppl_Octagonal_Shape_mpq_class_affine_dimension (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type * *m*) [related]

10.48.2.91 int ppl_Octagonal_Shape_mpq_class_affine_image (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.48.2.92 int ppl_Octagonal_Shape_mpq_class_affine_preimage (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.48.2.93 int ppl_Octagonal_Shape_mpq_class_BHMZ05_widening_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) `[related]`

10.48.2.94 int ppl_Octagonal_Shape_mpq_class_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, unsigned ∗ *tp*) `[related]`

10.48.2.95 int ppl_Octagonal_Shape_mpq_class_bounded_affine_image (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.48.2.96 int ppl_Octagonal_Shape_mpq_class_bounded_affine_preimage (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.48.2.97 int ppl_Octagonal_Shape_mpq_class_bounds_from_above (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.48.2.98 int ppl_Octagonal_Shape_mpq_class_bounds_from_below (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.48.2.99 int ppl_Octagonal_Shape_mpq_class_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) `[related]`

10.48.2.100 int ppl_Octagonal_Shape_mpq_class_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, unsigned ∗ *tp*) [related]

10.48.2.101 int ppl_Octagonal_Shape_mpq_class_CC76_narrowing_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.102 int ppl_Octagonal_Shape_mpq_class_concatenate_assign (ppl_Octagonal_-Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.103 int ppl_Octagonal_Shape_mpq_class_constrains (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.48.2.104 int ppl_Octagonal_Shape_mpq_class_contains_integer_point (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.105 int ppl_Octagonal_Shape_mpq_class_contains_Octagonal_Shape_mpq_class (ppl_-const_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.106 int ppl_Octagonal_Shape_mpq_class_difference_assign (ppl_Octagonal_-Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.107 int ppl_Octagonal_Shape_mpq_class_drop_some_non_integer_points (ppl_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.48.2.108 int ppl_Octagonal_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.48.2.109 int ppl_Octagonal_Shape_mpq_class_equals_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.110 int ppl_Octagonal_Shape_mpq_class_expand_space_dimension (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.48.2.111 int ppl_Octagonal_Shape_mpq_class_external_memory_in_bytes (ppl_const_Octagonal_Shape_mpq_class_t *ps*, size_t * *sz*) [related]

10.48.2.112 int ppl_Octagonal_Shape_mpq_class_fold_space_dimensions (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.48.2.113 int ppl_Octagonal_Shape_mpq_class_frequency (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.48.2.114 int ppl_Octagonal_Shape_mpq_class_generalized_affine_image (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.48.2.115 int ppl_Octagonal_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.48.2.116 int ppl_Octagonal_Shape_mpq_class_generalized_affine_preimage (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.48.2.117 int ppl_Octagonal_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.48.2.118 int ppl_Octagonal_Shape_mpq_class_get_congruences (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) `[related]`

10.48.2.119 int ppl_Octagonal_Shape_mpq_class_get_constraints (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) `[related]`

10.48.2.120 int ppl_Octagonal_Shape_mpq_class_get_minimized_congruences (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) `[related]`

10.48.2.121 int ppl_Octagonal_Shape_mpq_class_get_minimized_constraints (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) `[related]`

10.48.2.122 int ppl_Octagonal_Shape_mpq_class_intersection_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) `[related]`

10.48.2.123 int ppl_Octagonal_Shape_mpq_class_is_bounded (ppl_const_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.48.2.124 int ppl_Octagonal_Shape_mpq_class_is_discrete (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.125 int ppl_Octagonal_Shape_mpq_class_is_disjoint_from_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.126 int ppl_Octagonal_Shape_mpq_class_is_empty (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.127 int ppl_Octagonal_Shape_mpq_class_is_topologically_closed (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.128 int ppl_Octagonal_Shape_mpq_class_is_universe (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.129 int ppl_Octagonal_Shape_mpq_class_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.48.2.130 int ppl_Octagonal_Shape_mpq_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.48.2.131 int ppl_Octagonal_Shape_mpq_class_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.48.2.132 int ppl_Octagonal_Shape_mpq_class_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.48.2.133 int ppl_Octagonal_Shape_mpq_class_linear_partition (ppl_const_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, ppl_Octagonal_Shape_mpq_class_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.48.2.134 int ppl_Octagonal_Shape_mpq_class_map_space_dimensions (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.48.2.135 int ppl_Octagonal_Shape_mpq_class_maximize (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.48.2.136 int ppl_Octagonal_Shape_mpq_class_maximize_with_point (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.48.2.137 int ppl_Octagonal_Shape_mpq_class_minimize (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.48.2.138 int ppl_Octagonal_Shape_mpq_class_minimize_with_point (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.48.2.139 int ppl_Octagonal_Shape_mpq_class_OK (ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.140 int ppl_Octagonal_Shape_mpq_class_refine_with_congruence (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.48.2.141 int ppl_Octagonal_Shape_mpq_class_refine_with_congruences (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.48.2.142 int ppl_Octagonal_Shape_mpq_class_refine_with_constraint (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.48.2.143 int ppl_Octagonal_Shape_mpq_class_refine_with_constraints (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.48.2.144 int ppl_Octagonal_Shape_mpq_class_relation_with_Congruence (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.48.2.145 int ppl_Octagonal_Shape_mpq_class_relation_with_Constraint (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.48.2.146 int ppl_Octagonal_Shape_mpq_class_relation_with_Generator (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.48.2.147 int ppl_Octagonal_Shape_mpq_class_remove_higher_space_dimensions (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.48.2.148 int ppl_Octagonal_Shape_mpq_class_remove_space_dimensions (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.48.2.149 int ppl_Octagonal_Shape_mpq_class_simplify_using_context_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.150 int ppl_Octagonal_Shape_mpq_class_space_dimension (ppl_const_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.48.2.151 int ppl_Octagonal_Shape_mpq_class_strictly_contains_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.152 int ppl_Octagonal_Shape_mpq_class_time_elapse_assign (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.153 int ppl_Octagonal_Shape_mpq_class_topological_closure_assign (ppl_Octagonal_Shape_mpq_class_t *ph*) [related]

10.48.2.154 int ppl_Octagonal_Shape_mpq_class_total_memory_in_bytes (ppl_const_Octagonal_Shape_mpq_class_t *ps*, size_t ∗ *sz*) [related]

10.48.2.155 int ppl_Octagonal_Shape_mpq_class_unconstrain_space_dimension (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.48.2.156 int ppl_Octagonal_Shape_mpq_class_unconstrain_space_dimensions (ppl_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.48.2.157 int ppl_Octagonal_Shape_mpq_class_upper_bound_assign (ppl_Octagonal_-Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.158 int ppl_Octagonal_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.159 int ppl_Octagonal_Shape_mpq_class_widening_assign (ppl_Octagonal_-Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*) [related]

10.48.2.160 int ppl_Octagonal_Shape_mpq_class_widening_assign_with_tokens (ppl_Octagonal_Shape_mpq_class_t *x*, ppl_const_Octagonal_Shape_mpq_class_t *y*, unsigned ∗ *tp*) [related]

10.48.2.161 int ppl_Octagonal_Shape_mpq_class_wrap_assign (ppl_Octagonal_-Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_-Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.48.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*, ppl_Generator_t *point*) [related]

10.48.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.48.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*, ppl_Generator_t *point*) [related]

10.48.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.48.2.166 int ppl_termination_test_MS_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*) [related]

10.48.2.167 int ppl_termination_test_MS_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*) [related]

10.48.2.168 int ppl_termination_test_PR_Octagonal_Shape_mpq_class (ppl_const_Octagonal_Shape_mpq_class_t *pset*) [related]

10.48.2.169 int ppl_termination_test_PR_Octagonal_Shape_mpq_class_2 (ppl_const_Octagonal_Shape_mpq_class_t *pset_before*, ppl_const_Octagonal_Shape_mpq_class_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.49 ppl_Octagonal_Shape_mpz_class_tag Interface Reference

Types and functions for ppl_Octagonal_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_space_dimension (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int8_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int16_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int32_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int64_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint8_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint16_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint32_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint64_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Z_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Rational_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int8_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int16_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int32_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int64_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)

- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_C_Polyhedron (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_NNC_Polyhedron (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Grid (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Float_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_float (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_float (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Double_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_double (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_double (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Long_Double_Box (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_long_double (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Z_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)

- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Grid_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Float_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_float_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Double_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_long_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_long_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Octagonal_Shape_mpz_class_from_Constraint_System (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_const_Constraint_System_t cs)

- int ppl_new_Octagonal_Shape_mpz_class_from_Congruence_System (ppl_Octagonal_Shape_-mpz_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_mpz_class_from_Generator_System (ppl_Octagonal_Shape_mpz_-class_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_space_dimension (ppl_const_Octagonal_Shape_mpz_class_-t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_mpz_class_affine_dimension (ppl_const_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type *m)
- int ppl_Octagonal_Shape_mpz_class_relation_with_Constraint (ppl_const_Octagonal_Shape_-mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_mpz_class_relation_with_Generator (ppl_const_Octagonal_Shape_-mpz_class_t ph, ppl_const_Generator_t c)
- int ppl_Octagonal_Shape_mpz_class_relation_with_Congruence (ppl_const_Octagonal_Shape_-mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_mpz_class_get_constraints (ppl_const_Octagonal_Shape_mpz_class_-t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_mpz_class_get_congruences (ppl_const_Octagonal_Shape_mpz_class_-t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_mpz_class_get_minimized_constraints (ppl_const_Octagonal_Shape_-mpz_class_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Octagonal_Shape_mpz_class_get_minimized_congruences (ppl_const_Octagonal_Shape_-mpz_class_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Octagonal_Shape_mpz_class_is_empty (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_Octagonal_Shape_mpz_class_is_universe (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_Octagonal_Shape_mpz_class_is_bounded (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_Octagonal_Shape_mpz_class_contains_integer_point (ppl_const_Octagonal_Shape_mpz_-class_t ph)
- int ppl_Octagonal_Shape_mpz_class_is_topologically_closed (ppl_const_Octagonal_Shape_mpz_-class_t ph)
- int ppl_Octagonal_Shape_mpz_class_is_discrete (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_Octagonal_Shape_mpz_class_topological_closure_assign (ppl_Octagonal_Shape_mpz_-class_t ph)
- int ppl_Octagonal_Shape_mpz_class_bounds_from_above (ppl_const_Octagonal_Shape_mpz_-class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_mpz_class_bounds_from_below (ppl_const_Octagonal_Shape_mpz_-class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Octagonal_Shape_mpz_class_maximize (ppl_const_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_mpz_class_minimize (ppl_const_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Octagonal_Shape_mpz_class_maximize_with_point (ppl_const_Octagonal_Shape_mpz_-class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_mpz_class_minimize_with_point (ppl_const_Octagonal_Shape_mpz_-class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Octagonal_Shape_mpz_class_frequency (ppl_const_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_-Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Octagonal_Shape_mpz_class_contains_Octagonal_Shape_mpz_class (ppl_const_-Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)

- int ppl_Octagonal_Shape_mpz_class_strictly_contains_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_is_disjoint_from_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_equals_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_OK (ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_Octagonal_Shape_mpz_class_add_constraint (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_mpz_class_add_congruence (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_mpz_class_add_constraints (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_add_congruences (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_refine_with_constraint (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Octagonal_Shape_mpz_class_refine_with_congruence (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Octagonal_Shape_mpz_class_refine_with_constraints (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_refine_with_congruences (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_intersection_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_upper_bound_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_difference_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_concatenate_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_time_elapse_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_upper_bound_assign_if_exact (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_simplify_using_context_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_constrains (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_mpz_class_unconstrain_space_dimension (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Octagonal_Shape_mpz_class_unconstrain_space_dimensions (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_mpz_class_affine_image (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpz_class_affine_preimage (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpz_class_bounded_affine_image (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_Octagonal_Shape_mpz_class_bounded_affine_preimage (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpz_class_generalized_affine_image (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpz_class_generalized_affine_preimage (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Octagonal_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Octagonal_Shape_mpz_class_add_space_dimensions_and_embed (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpz_class_add_space_dimensions_and_project (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpz_class_remove_space_dimensions (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Octagonal_Shape_mpz_class_remove_higher_space_dimensions (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpz_class_expand_space_dimension (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Octagonal_Shape_mpz_class_fold_space_dimensions (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Octagonal_Shape_mpz_class_map_space_dimensions (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Octagonal_Shape_mpz_class_drop_some_non_integer_points (ppl_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_Octagonal_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Octagonal_Shape_mpz_class_external_memory_in_bytes (ppl_const_Octagonal_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_mpz_class_total_memory_in_bytes (ppl_const_Octagonal_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_Octagonal_Shape_mpz_class_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpz_class_BHMZ05_widening_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_widening_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpz_class_widening_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Octagonal_Shape_mpz_class_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)

- int ppl_Octagonal_Shape_mpz_class_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, ppl_const_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, unsigned *tp)
- int ppl_Octagonal_Shape_mpz_class_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_CC76_narrowing_assign (ppl_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y)
- int ppl_Octagonal_Shape_mpz_class_linear_partition (ppl_const_Octagonal_Shape_mpz_class_t x, ppl_const_Octagonal_Shape_mpz_class_t y, ppl_Octagonal_Shape_mpz_class_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Octagonal_Shape_mpz_class_wrap_assign (ppl_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Octagonal_Shape_mpz_class_recycle_Constraint_System (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Octagonal_Shape_mpz_class_recycle_Congruence_System (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Octagonal_Shape_mpz_class_recycle_Generator_System (ppl_Octagonal_Shape_mpz_class_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t dst, ppl_const_Octagonal_Shape_mpz_class_t src)
- int ppl_Octagonal_Shape_mpz_class_add_recycled_constraints (ppl_Octagonal_Shape_mpz_class_t ph, ppl_Constraint_System_t cs)
- int ppl_Octagonal_Shape_mpz_class_add_recycled_congruences (ppl_Octagonal_Shape_mpz_class_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset)
- int ppl_termination_test_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after)
- int ppl_termination_test_PR_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after)
- int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after, ppl_Generator_t point)

- int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_-Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after, ppl_-Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_-Shape_mpz_class_t pset_before, ppl_const_Octagonal_Shape_mpz_class_t pset_after, ppl_-Polyhedron_t ph)

10.49.1 Detailed Description

Types and functions for ppl_Octagonal_Shape_mpz_class_tag.

10.49.2 Friends And Related Function Documentation

10.49.2.1 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.49.2.2 int ppl_all_affine_ranking_functions_MS_Octagonal_Shape_mpz_class_2 (ppl_const_-Octagonal_Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.49.2.3 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.49.2.4 int ppl_all_affine_ranking_functions_PR_Octagonal_Shape_mpz_class_2 (ppl_const_-Octagonal_Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.49.2.5 int ppl_assign_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t *dst*, ppl_const_Octagonal_Shape_mpz_class_t *src*) [related]

10.49.2.6 int ppl_delete_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.7 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_double (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.49.2.8 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.49.2.9 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_float (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.49.2.10 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_float_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.49.2.11 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int16_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.49.2.12 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int16_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.49.2.13 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int32_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.49.2.14 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int32_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.49.2.15 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int64_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.49.2.16 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int64_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.49.2.17 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int8_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.49.2.18 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_int8_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.49.2.19 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_long_double (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.49.2.20 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_long_-double_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.49.2.21 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpq_class (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.49.2.22 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpq_-class_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.49.2.23 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.49.2.24 int ppl_new_Octagonal_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.49.2.25 int ppl_new_Octagonal_Shape_mpz_class_from_C_Polyhedron (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.49.2.26 int ppl_new_Octagonal_Shape_mpz_class_from_C_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.49.2.27 int ppl_new_Octagonal_Shape_mpz_class_from_Congruence_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.49.2.28 int ppl_new_Octagonal_Shape_mpz_class_from_Constraint_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.49.2.29 int ppl_new_Octagonal_Shape_mpz_class_from_Double_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.49.2.30 int ppl_new_Octagonal_Shape_mpz_class_from_Double_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.49.2.31 int ppl_new_Octagonal_Shape_mpz_class_from_Float_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.49.2.32 int ppl_new_Octagonal_Shape_mpz_class_from_Float_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.49.2.33 int ppl_new_Octagonal_Shape_mpz_class_from_Generator_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.49.2.34 int ppl_new_Octagonal_Shape_mpz_class_from_Grid (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.49.2.35 int ppl_new_Octagonal_Shape_mpz_class_from_Grid_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.49.2.36 int ppl_new_Octagonal_Shape_mpz_class_from_Int16_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.49.2.37 int ppl_new_Octagonal_Shape_mpz_class_from_Int16_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.49.2.38 int ppl_new_Octagonal_Shape_mpz_class_from_Int32_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.49.2.39 int ppl_new_Octagonal_Shape_mpz_class_from_Int32_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.49.2.40 int ppl_new_Octagonal_Shape_mpz_class_from_Int64_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.49.2.41 int ppl_new_Octagonal_Shape_mpz_class_from_Int64_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.49.2.42 int ppl_new_Octagonal_Shape_mpz_class_from_Int8_Box (ppl_-Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.49.2.43 int ppl_new_Octagonal_Shape_mpz_class_from_Int8_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.49.2.44 int ppl_new_Octagonal_Shape_mpz_class_from_Long_Double_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.49.2.45 int ppl_new_Octagonal_Shape_mpz_class_from_Long_Double_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.49.2.46 int ppl_new_Octagonal_Shape_mpz_class_from_NNC_Polyhedron (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.49.2.47 int ppl_new_Octagonal_Shape_mpz_class_from_NNC_Polyhedron_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.49.2.48 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_double (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.49.2.49 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-double_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.49.2.50 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_float (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.49.2.51 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-float_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.49.2.52 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int16_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.49.2.53 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-int16_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.49.2.54 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int32_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.49.2.55 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.49.2.56 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int64_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.49.2.57 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-int64_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.49.2.58 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_int8_t (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.49.2.59 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-int8_t_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.49.2.60 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_long_double (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.49.2.61 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-long_double_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.49.2.62 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpq_class (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.49.2.63 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-mpq_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.49.2.64 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.65 int ppl_new_Octagonal_Shape_mpz_class_from_Octagonal_Shape_-mpz_class_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.49.2.66 int ppl_new_Octagonal_Shape_mpz_class_from_Rational_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.49.2.67 int ppl_new_Octagonal_Shape_mpz_class_from_Rational_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.49.2.68 int ppl_new_Octagonal_Shape_mpz_class_from_space_dimension (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.49.2.69 int ppl_new_Octagonal_Shape_mpz_class_from_Uint16_Box (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.49.2.70 int ppl_new_Octagonal_Shape_mpz_class_from_Uint16_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.49.2.71 int ppl_new_Octagonal_Shape_mpz_class_from_Uint32_Box (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.49.2.72 int ppl_new_Octagonal_Shape_mpz_class_from_Uint32_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.49.2.73 int ppl_new_Octagonal_Shape_mpz_class_from_Uint64_Box (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.49.2.74 int ppl_new_Octagonal_Shape_mpz_class_from_Uint64_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.49.2.75 int ppl_new_Octagonal_Shape_mpz_class_from_Uint8_Box (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.49.2.76 int ppl_new_Octagonal_Shape_mpz_class_from_Uint8_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.49.2.77 int ppl_new_Octagonal_Shape_mpz_class_from_Z_Box (ppl_-Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.49.2.78 int ppl_new_Octagonal_Shape_mpz_class_from_Z_Box_with_complexity (ppl_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.49.2.79 int ppl_new_Octagonal_Shape_mpz_class_recycle_Congruence_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.49.2.80 int ppl_new_Octagonal_Shape_mpz_class_recycle_Constraint_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.49.2.81 int ppl_new_Octagonal_Shape_mpz_class_recycle_Generator_System (ppl_Octagonal_Shape_mpz_class_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.49.2.82 int ppl_Octagonal_Shape_mpz_class_add_congruence (ppl_-Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.49.2.83 int ppl_Octagonal_Shape_mpz_class_add_congruences (ppl_-Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.49.2.84 int ppl_Octagonal_Shape_mpz_class_add_constraint (ppl_Octagonal_Shape_mpz_-class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.49.2.85 int ppl_Octagonal_Shape_mpz_class_add_constraints (ppl_-Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.49.2.86 int ppl_Octagonal_Shape_mpz_class_add_recycled_congruences (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.49.2.87 int ppl_Octagonal_Shape_mpz_class_add_recycled_constraints (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.49.2.88 int ppl_Octagonal_Shape_mpz_class_add_space_dimensions_and_embed (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.49.2.89 int ppl_Octagonal_Shape_mpz_class_add_space_dimensions_and_project (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.49.2.90 int ppl_Octagonal_Shape_mpz_class_affine_dimension (ppl_const_-Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.49.2.91 int ppl_Octagonal_Shape_mpz_class_affine_image (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.49.2.92 int ppl_Octagonal_Shape_mpz_class_affine_preimage (ppl_Octagonal_Shape_-mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.49.2.93 int ppl_Octagonal_Shape_mpz_class_BHMZ05_widening_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.94 int ppl_Octagonal_Shape_mpz_class_BHMZ05_widening_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, unsigned ∗ *tp*) [related]

10.49.2.95 int ppl_Octagonal_Shape_mpz_class_bounded_affine_image (ppl_Octagonal_Shape_-mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.49.2.96 int ppl_Octagonal_Shape_mpz_class_bounded_affine_preimage (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.49.2.97 int ppl_Octagonal_Shape_mpz_class_bounds_from_above (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.49.2.98 int ppl_Octagonal_Shape_mpz_class_bounds_from_below (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.49.2.99 int ppl_Octagonal_Shape_mpz_class_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) `[related]`

10.49.2.100 int ppl_Octagonal_Shape_mpz_class_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, unsigned * *tp*) `[related]`

10.49.2.101 int ppl_Octagonal_Shape_mpz_class_CC76_narrowing_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) `[related]`

10.49.2.102 int ppl_Octagonal_Shape_mpz_class_concatenate_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) `[related]`

10.49.2.103 int ppl_Octagonal_Shape_mpz_class_constrains (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) `[related]`

10.49.2.104 int ppl_Octagonal_Shape_mpz_class_contains_integer_point (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.105 int ppl_Octagonal_Shape_mpz_class_contains_Octagonal_Shape_mpz_class (ppl_-const_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.106 int ppl_Octagonal_Shape_mpz_class_difference_assign (ppl_Octagonal_-Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.107 int ppl_Octagonal_Shape_mpz_class_drop_some_non_integer_points (ppl_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.49.2.108 int ppl_Octagonal_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.49.2.109 int ppl_Octagonal_Shape_mpz_class_equals_Octagonal_Shape_mpz_class (ppl_-const_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.110 int ppl_Octagonal_Shape_mpz_class_expand_space_dimension (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.49.2.111 int ppl_Octagonal_Shape_mpz_class_external_memory_in_bytes (ppl_const_Octagonal_Shape_mpz_class_t *ps*, size_t ∗ *sz*) [related]

10.49.2.112 int ppl_Octagonal_Shape_mpz_class_fold_space_dimensions (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.49.2.113 int ppl_Octagonal_Shape_mpz_class_frequency (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.49.2.114 int ppl_Octagonal_Shape_mpz_class_generalized_affine_image (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.49.2.115 int ppl_Octagonal_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.49.2.116 int ppl_Octagonal_Shape_mpz_class_generalized_affine_preimage (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.49.2.117 int ppl_Octagonal_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.49.2.118 int ppl_Octagonal_Shape_mpz_class_get_congruences (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.49.2.119 int ppl_Octagonal_Shape_mpz_class_get_constraints (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.49.2.120 int ppl_Octagonal_Shape_mpz_class_get_minimized_congruences (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.49.2.121 int ppl_Octagonal_Shape_mpz_class_get_minimized_constraints (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.49.2.122 int ppl_Octagonal_Shape_mpz_class_intersection_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.123 int ppl_Octagonal_Shape_mpz_class_is_bounded (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.124 int ppl_Octagonal_Shape_mpz_class_is_discrete (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.125 int ppl_Octagonal_Shape_mpz_class_is_disjoint_from_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.126 int ppl_Octagonal_Shape_mpz_class_is_empty (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.127 int ppl_Octagonal_Shape_mpz_class_is_topologically_closed (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.128 int ppl_Octagonal_Shape_mpz_class_is_universe (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.129 int ppl_Octagonal_Shape_mpz_class_limited_BHMZ05_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.49.2.130 int ppl_Octagonal_Shape_mpz_class_limited_BHMZ05_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.49.2.131 int ppl_Octagonal_Shape_mpz_class_limited_CC76_extrapolation_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.49.2.132 int ppl_Octagonal_Shape_mpz_class_limited_CC76_extrapolation_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.49.2.133 int ppl_Octagonal_Shape_mpz_class_linear_partition (ppl_const_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, ppl_Octagonal_Shape_mpz_class_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.49.2.134 int ppl_Octagonal_Shape_mpz_class_map_space_dimensions (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.49.2.135 int ppl_Octagonal_Shape_mpz_class_maximize (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.49.2.136 int ppl_Octagonal_Shape_mpz_class_maximize_with_point (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.49.2.137 int ppl_Octagonal_Shape_mpz_class_minimize (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.49.2.138 int ppl_Octagonal_Shape_mpz_class_minimize_with_point (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.49.2.139 int ppl_Octagonal_Shape_mpz_class_OK (ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.140 int ppl_Octagonal_Shape_mpz_class_refine_with_congruence (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.49.2.141 int ppl_Octagonal_Shape_mpz_class_refine_with_congruences (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.49.2.142 int ppl_Octagonal_Shape_mpz_class_refine_with_constraint (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.49.2.143 int ppl_Octagonal_Shape_mpz_class_refine_with_constraints (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.49.2.144 int ppl_Octagonal_Shape_mpz_class_relation_with_Congruence (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.49.2.145 int ppl_Octagonal_Shape_mpz_class_relation_with_Constraint (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.49.2.146 int ppl_Octagonal_Shape_mpz_class_relation_with_Generator (ppl_const_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.49.2.147 int ppl_Octagonal_Shape_mpz_class_remove_higher_space_dimensions (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.49.2.148 int ppl_Octagonal_Shape_mpz_class_remove_space_dimensions (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.49.2.149 int ppl_Octagonal_Shape_mpz_class_simplify_using_context_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.150 int ppl_Octagonal_Shape_mpz_class_space_dimension (ppl_const_-Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.49.2.151 int ppl_Octagonal_Shape_mpz_class_strictly_contains_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.152 int ppl_Octagonal_Shape_mpz_class_time_elapse_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.153 int ppl_Octagonal_Shape_mpz_class_topological_closure_assign (ppl_Octagonal_Shape_mpz_class_t *ph*) [related]

10.49.2.154 int ppl_Octagonal_Shape_mpz_class_total_memory_in_bytes (ppl_const_Octagonal_Shape_mpz_class_t *ps*, size_t ∗ *sz*) [related]

10.49.2.155 int ppl_Octagonal_Shape_mpz_class_unconstrain_space_dimension (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.49.2.156 int ppl_Octagonal_Shape_mpz_class_unconstrain_space_dimensions (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.49.2.157 int ppl_Octagonal_Shape_mpz_class_upper_bound_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.158 int ppl_Octagonal_Shape_mpz_class_upper_bound_assign_if_exact (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.159 int ppl_Octagonal_Shape_mpz_class_widening_assign (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*) [related]

10.49.2.160 int ppl_Octagonal_Shape_mpz_class_widening_assign_with_tokens (ppl_Octagonal_Shape_mpz_class_t *x*, ppl_const_Octagonal_Shape_mpz_class_t *y*, unsigned ∗ *tp*) [related]

10.49.2.161 int ppl_Octagonal_Shape_mpz_class_wrap_assign (ppl_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.49.2.162 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*, ppl_Generator_t *point*) [related]

10.49.2.163 int ppl_one_affine_ranking_function_MS_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.49.2.164 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*, ppl_Generator_t *point*) [related]

10.49.2.165 int ppl_one_affine_ranking_function_PR_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*, ppl_Generator_t *point*) [related]

10.49.2.166 int ppl_termination_test_MS_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*) [related]

10.49.2.167 int ppl_termination_test_MS_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_-Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*) [related]

10.49.2.168 int ppl_termination_test_PR_Octagonal_Shape_mpz_class (ppl_const_Octagonal_Shape_mpz_class_t *pset*) [related]

10.49.2.169 int ppl_termination_test_PR_Octagonal_Shape_mpz_class_2 (ppl_const_Octagonal_-Shape_mpz_class_t *pset_before*, ppl_const_Octagonal_Shape_mpz_class_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.50 ppl_PIP_Decision_Node_tag Interface Reference

Types and functions for PIP decision nodes.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_PIP_Decision_Node_get_child_node (ppl_const_PIP_Decision_Node_t pip_dec, int b, ppl_-const_PIP_Tree_Node_t *pip_tree)

  Writes to `pip_tree` *a const pointer to either the true branch (if* `b` *is not zero) or the false branch (if* `b` *is zero) of* `pip_dec`*.*

10.50.1 Detailed Description

Types and functions for PIP decision nodes. The types and functions for decision nodes provide an interface towards *PIP_Decision_Node*.

10.50.2 Friends And Related Function Documentation

10.50.2.1 int ppl_PIP_Decision_Node_get_child_node (ppl_const_PIP_Decision_Node_t *pip_dec*, int *b*, ppl_const_PIP_Tree_Node_t ∗ *pip_tree*) [related]

Writes to `pip_tree` a const pointer to either the true branch (if `b` is not zero) or the false branch (if `b` is zero) of `pip_dec`.

Definition at line 2468 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.51 ppl_PIP_Problem_tag Interface Reference

Types and functions for PIP problems.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Symbolic Constants

- int PPL_PIP_PROBLEM_STATUS_UNFEASIBLE
  Code of the "unfeasible PIP problem" status.
- int PPL_PIP_PROBLEM_STATUS_OPTIMIZED
  Code of the "optimized PIP problem" status.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_CUTTING_STRATEGY
  Code for the PIP problem's "cutting strategy" control parameter name.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_PIVOT_ROW_STRATEGY
  Code for the PIP problem's "pivot row strategy" control parameter name.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_FIRST
  Code of PIP problem's "first" cutting strategy.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_DEEPEST
  Code of PIP problem's "deepest" cutting strategy.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_ALL
  Code of PIP problem's "all" cutting strategy.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_FIRST
  Code of PIP problem's "first" pivot row strategy.
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_MAX_-COLUMN
  Code of PIP problem's "max column" pivot row strategy.

Constructors, Assignment and Destructor

- int ppl_new_PIP_Problem_from_space_dimension (ppl_PIP_Problem_t *ppip, ppl_dimension_type d)

  Builds a trivial PIP problem of dimension `d` *and writes a handle to it at address* `ppip`.

- int ppl_new_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t *ppip, ppl_const_PIP_Problem_t pip)

  Builds a PIP problem that is a copy of `pip`*; writes a handle for the newly created problem at address* `ppip`.

- int ppl_assign_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t dst, ppl_const_PIP_Problem_t src)

  Assigns a copy of the PIP problem `src` *to* `dst`.

- int ppl_new_PIP_Problem_from_constraints (ppl_PIP_Problem_t *ppip, ppl_dimension_type d, ppl_Constraint_System_const_iterator_t first, ppl_Constraint_System_const_iterator_t last, size_t n, ppl_dimension_type ds[ ])

  Builds a PIP problem having space dimension `d` *from the sequence of constraints in the range* $[\mathrm{first}, \mathrm{last})$*; the* `n` *dimensions whose indices occur in* `ds` *are interpreted as parameters.*

- int ppl_delete_PIP_Problem (ppl_const_PIP_Problem_t pip)

  Invalidates the handle `pip`*: this makes sure the corresponding resources will eventually be released.*

Functions that Do Not Modify the PIP_Problem

- int ppl_PIP_Problem_space_dimension (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)

  Writes to `m` *the dimension of the vector space enclosing* `pip`.

- int ppl_PIP_Problem_number_of_parameter_space_dimensions (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)

  Writes to `m` *the number of parameter space dimensions of* `pip`.

- int ppl_PIP_Problem_parameter_space_dimensions (ppl_const_PIP_Problem_t pip, ppl_dimension_type ds[ ])

  Writes in the first positions of the array `ds` *all the parameter space dimensions of problem* `pip`*. If the array is not big enough to hold all of the parameter space dimensions, the behavior is undefined.*

- int ppl_PIP_Problem_get_big_parameter_dimension (ppl_const_PIP_Problem_t pip, ppl_dimension_type *pd)

  Writes into `*pd` *the big parameter dimension of PIP problem* `pip`.

- int ppl_PIP_Problem_number_of_constraints (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)

  Writes to `m` *the number of constraints defining the feasible region of* `pip`.

- int ppl_PIP_Problem_constraint_at_index (ppl_const_PIP_Problem_t pip, ppl_dimension_type i, ppl_const_Constraint_t *pc)

  Writes at address `pc` *a const handle to the* `i-th` *constraint defining the feasible region of the PIP problem* `pip`.

- int ppl_PIP_Problem_total_memory_in_bytes (ppl_const_PIP_Problem_t pip, size_t *sz)

  Writes into `*sz` *the size in bytes of the memory occupied by* `pip`.

- int ppl_PIP_Problem_external_memory_in_bytes (ppl_const_PIP_Problem_t pip, size_t *sz)

  Writes into `*sz` *the size in bytes of the memory managed by* `pip`.

- int ppl_PIP_Problem_OK (ppl_const_PIP_Problem_t pip)

  Returns a positive integer if `pip` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `pip` *is broken. Useful for debugging purposes.*

Functions that May Modify the PIP_Problem

- int ppl_PIP_Problem_clear (ppl_PIP_Problem_t pip)

  Resets the PIP problem to be a trivial problem of space dimension 0.

- int ppl_PIP_Problem_add_space_dimensions_and_embed (ppl_PIP_Problem_t pip, ppl_dimension_type pip_vars, ppl_dimension_type pip_params)

  Adds `pip_vars + pip_params` *new space dimensions and embeds the PIP problem* `pip` *in the new vector space.*

- int ppl_PIP_Problem_add_to_parameter_space_dimensions (ppl_PIP_Problem_t pip, ppl_dimension_type ds[ ], size_t n)

  Sets the space dimensions that are specified in first `n` *positions of the array* `ds` *to be parameter dimensions of problem* `pip`. *The presence of duplicates in* `ds` *is a waste but an innocuous one.*

- int ppl_PIP_Problem_set_big_parameter_dimension (ppl_PIP_Problem_t pip, ppl_dimension_type d)

  Sets the big parameter dimension of PIP problem `pip` *to* `d`.

- int ppl_PIP_Problem_add_constraint (ppl_PIP_Problem_t pip, ppl_const_Constraint_t c)

  Modifies the feasible region of the PIP problem `pip` *by adding a copy of the constraint* `c`.

- int ppl_PIP_Problem_add_constraints (ppl_PIP_Problem_t pip, ppl_const_Constraint_System_t cs)

  Modifies the feasible region of the PIP problem `pip` *by adding a copy of the constraints in* `cs`.

Computing and Printing the Solution of the PIP_Problem

- int ppl_PIP_Problem_is_satisfiable (ppl_const_PIP_Problem_t pip)

  Returns a positive integer if `pip` *is satisfiable and an optimal solution can be found; returns 0 otherwise.*

- int ppl_PIP_Problem_solve (ppl_const_PIP_Problem_t pip)

  Solves the PIP problem `pip`, *returning an exit status.*

- int ppl_PIP_Problem_solution (ppl_const_PIP_Problem_t pip, ppl_const_PIP_Tree_Node_t *pip_tree)

  Writes to `pip_tree` *a solution for* `pip`, *if it exists.*

- int ppl_PIP_Problem_optimizing_solution (ppl_const_PIP_Problem_t pip, ppl_const_PIP_Tree_Node_t *pip_tree)

  Writes to `pip_tree` *an optimizing solution for* `pip`, *if it exists.*

Querying/Setting Control Parameters

- int ppl_PIP_Problem_get_control_parameter (ppl_const_PIP_Problem_t pip, int name)
  Returns the value of control parameter `name` *in problem* `pip`*.*
- int ppl_PIP_Problem_set_control_parameter (ppl_PIP_Problem_t pip, int value)
  Sets control parameter `value` *in problem* `pip`*.*

10.51.1 Detailed Description

Types and functions for PIP problems. The types and functions for PIP problems provide an interface towards *PIP_Problem*.

10.51.2 Friends And Related Function Documentation

10.51.2.1 int ppl_assign_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t *dst*, ppl_const_PIP_Problem_t *src*) `[related]`

Assigns a copy of the PIP problem `src` to `dst`.

Definition at line 2180 of file ppl_c_implementation_common.cc.

10.51.2.2 int ppl_delete_PIP_Problem (ppl_const_PIP_Problem_t *pip*) `[related]`

Invalidates the handle `pip:` this makes sure the corresponding resources will eventually be released.

Definition at line 2190 of file ppl_c_implementation_common.cc.

10.51.2.3 int ppl_new_PIP_Problem_from_constraints (ppl_PIP_Problem_t ∗ *ppip*, ppl_dimension_type *d*, ppl_Constraint_System_const_iterator_t *first*, ppl_Constraint_System_const_iterator_t *last*, size_t *n*, ppl_dimension_type *ds*[ ]) `[related]`

Builds a PIP problem having space dimension `d` from the sequence of constraints in the range $[\mathrm{first}, \mathrm{last})$; the `n` dimensions whose indices occur in `ds` are interpreted as parameters.

Definition at line 2164 of file ppl_c_implementation_common.cc.

10.51.2.4 int ppl_new_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t ∗ *ppip*, ppl_const_PIP_Problem_t *pip*) `[related]`

Builds a PIP problem that is a copy of `pip`; writes a handle for the newly created problem at address `ppip`.

Definition at line 2154 of file ppl_c_implementation_common.cc.

10.51.2.5 int ppl_new_PIP_Problem_from_space_dimension (ppl_PIP_Problem_t * *ppip*, ppl_dimension_type *d*) `[related]`

Builds a trivial PIP problem of dimension `d` and writes a handle to it at address `ppip`.

Definition at line 2146 of file ppl_c_implementation_common.cc.

10.51.2.6 int ppl_PIP_Problem_add_constraint (ppl_PIP_Problem_t *pip*, ppl_const_Constraint_t *c*) `[related]`

Modifies the feasible region of the PIP problem `pip` by adding a copy of the constraint `c`.

Definition at line 2278 of file ppl_c_implementation_common.cc.

10.51.2.7 int ppl_PIP_Problem_add_constraints (ppl_PIP_Problem_t *pip*, ppl_const_Constraint_System_t *cs*) `[related]`

Modifies the feasible region of the PIP problem `pip` by adding a copy of the constraints in `cs`.

Definition at line 2288 of file ppl_c_implementation_common.cc.

10.51.2.8 int ppl_PIP_Problem_add_space_dimensions_and_embed (ppl_PIP_Problem_t *pip*, ppl_dimension_type *pip_vars*, ppl_dimension_type *pip_params*) `[related]`

Adds `pip_vars + pip_params` new space dimensions and embeds the PIP problem `pip` in the new vector space.

Parameters

- ***pip*** The PIP problem to be embedded in the new vector space.
- ***pip_vars*** The number of space dimensions to add that are interpreted as PIP problem variables (i.e., non parameters). These are added *before* adding the `pip_params` parameters.
- ***pip_params*** The number of space dimensions to add that are interpreted as PIP problem parameters. These are added *after* having added the `pip_vars` problem variables.

The new space dimensions will be those having the highest indexes in the new PIP problem; they are initially unconstrained.

Definition at line 2256 of file ppl_c_implementation_common.cc.

10.51.2.9 int ppl_PIP_Problem_add_to_parameter_space_dimensions (ppl_PIP_Problem_t *pip*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

Sets the space dimensions that are specified in first `n` positions of the array `ds` to be parameter dimensions of problem `pip`. The presence of duplicates in `ds` is a waste but an innocuous one.

Definition at line 2266 of file ppl_c_implementation_common.cc.

10.51.2.10 int ppl_PIP_Problem_clear (ppl_PIP_Problem_t *pip*) [related]

Resets the PIP problem to be a trivial problem of space dimension 0.

Definition at line 2250 of file ppl_c_implementation_common.cc.

10.51.2.11 int ppl_PIP_Problem_constraint_at_index (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type *i*, ppl_const_Constraint_t * *pc*) [related]

Writes at address `pc` a const handle to the `i-th` constraint defining the feasible region of the PIP problem `pip`.

Definition at line 2235 of file ppl_c_implementation_common.cc.

10.51.2.12 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_ALL [related]

Code of PIP problem's "all" cutting strategy.

Definition at line 2523 of file ppl_c.h.

10.51.2.13 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_-DEEPEST [related]

Code of PIP problem's "deepest" cutting strategy.

Definition at line 2518 of file ppl_c.h.

10.51.2.14 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_-FIRST [related]

Code of PIP problem's "first" cutting strategy.

Definition at line 2513 of file ppl_c.h.

10.51.2.15 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_CUTTING_-STRATEGY [related]

Code for the PIP problem's "cutting strategy" control parameter name.

Definition at line 2503 of file ppl_c.h.

10.51.2.16 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_PIVOT_ROW_-STRATEGY [related]

Code for the PIP problem's "pivot row strategy" control parameter name.

Definition at line 2508 of file ppl_c.h.

10.51.2.17 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_-FIRST [related]

Code of PIP problem's "first" pivot row strategy.

Definition at line 2528 of file ppl_c.h.

10.51.2.18 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_-MAX_COLUMN [related]

Code of PIP problem's "max column" pivot row strategy.

Definition at line 2533 of file ppl_c.h.

10.51.2.19 int ppl_PIP_Problem_external_memory_in_bytes (ppl_const_PIP_Problem_t *pip*, size_t ∗ *sz*) [related]

Writes into `*sz` the size in bytes of the memory managed by `pip`.

Definition at line 2373 of file ppl_c_implementation_common.cc.

10.51.2.20 int ppl_PIP_Problem_get_big_parameter_dimension (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type ∗ *pd*) [related]

Writes into `*pd` the big parameter dimension of PIP problem `pip`.

Definition at line 2349 of file ppl_c_implementation_common.cc.

10.51.2.21 int ppl_PIP_Problem_get_control_parameter (ppl_const_PIP_Problem_t *pip*, int *name*) [related]

Returns the value of control parameter `name` in problem `pip`.

Definition at line 2330 of file ppl_c_implementation_common.cc.

10.51.2.22 int ppl_PIP_Problem_is_satisfiable (ppl_const_PIP_Problem_t *pip*) [related]

Returns a positive integer if pip is satisfiable and an optimal solution can be found; returns 0 otherwise.

Definition at line 2297 of file ppl_c_implementation_common.cc.

10.51.2.23 int ppl_PIP_Problem_number_of_constraints (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type * *m*) [related]

Writes to m the number of constraints defining the feasible region of pip.

Definition at line 2226 of file ppl_c_implementation_common.cc.

Referenced by ppl_PIP_Problem_constraint_at_index().

10.51.2.24 int ppl_PIP_Problem_number_of_parameter_space_dimensions (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type * *m*) [related]

Writes to m the number of parameter space dimensions of pip.

Definition at line 2206 of file ppl_c_implementation_common.cc.

10.51.2.25 int ppl_PIP_Problem_OK (ppl_const_PIP_Problem_t *pip*) [related]

Returns a positive integer if pip is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if pip is broken. Useful for debugging purposes.

Definition at line 2324 of file ppl_c_implementation_common.cc.

10.51.2.26 int ppl_PIP_Problem_optimizing_solution (ppl_const_PIP_Problem_t *pip*, ppl_const_PIP_Tree_Node_t * *pip_tree*) [related]

Writes to pip_tree an optimizing solution for pip, if it exists.

Definition at line 2316 of file ppl_c_implementation_common.cc.

10.51.2.27 int ppl_PIP_Problem_parameter_space_dimensions (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type *ds*[ ]) [related]

Writes in the first positions of the array ds all the parameter space dimensions of problem pip. If the array is not big enough to hold all of the parameter space dimensions, the behavior is undefined.

Definition at line 2214 of file ppl_c_implementation_common.cc.

10.51.2.28 int ppl_PIP_Problem_set_big_parameter_dimension (ppl_PIP_Problem_t *pip*, ppl_dimension_type *d*) [related]

Sets the big parameter dimension of PIP problem pip to d.

Definition at line 2357 of file ppl_c_implementation_common.cc.

10.51.2.29 int ppl_PIP_Problem_set_control_parameter (ppl_PIP_Problem_t *pip*, int *value*) [related]

Sets control parameter value in problem pip.

Definition at line 2339 of file ppl_c_implementation_common.cc.

10.51.2.30 int ppl_PIP_Problem_solution (ppl_const_PIP_Problem_t *pip*, ppl_const_PIP_Tree_Node_t * *pip_tree*) [related]

Writes to pip_tree a solution for pip, if it exists.

Definition at line 2308 of file ppl_c_implementation_common.cc.

10.51.2.31 int ppl_PIP_Problem_solve (ppl_const_PIP_Problem_t *pip*) [related]

Solves the PIP problem pip, returning an exit status.

Returns

PPL_PIP_PROBLEM_STATUS_UNFEASIBLE if the PIP problem is not satisfiable; PPL_PIP_PROBLEM_STATUS_OPTIMIZED if the PIP problem admits an optimal solution.

Definition at line 2302 of file ppl_c_implementation_common.cc.

10.51.2.32 int ppl_PIP_Problem_space_dimension (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type * *m*) [related]

Writes to m the dimension of the vector space enclosing pip.

The vector space dimensions includes both the problem variables and the problem parameters, but they do not include the artificial parameters.

Definition at line 2197 of file ppl_c_implementation_common.cc.

10.51.2.33 int PPL_PIP_PROBLEM_STATUS_OPTIMIZED [related]

Code of the "optimized PIP problem" status.

Definition at line 2498 of file ppl_c.h.

10.51.2.34 int PPL_PIP_PROBLEM_STATUS_UNFEASIBLE [related]

Code of the "unfeasible PIP problem" status.

Definition at line 2493 of file ppl_c.h.

10.51.2.35 int ppl_PIP_Problem_total_memory_in_bytes (ppl_const_PIP_Problem_t *pip*, size_t ∗ *sz*) [related]

Writes into `*sz` the size in bytes of the memory occupied by `pip`.

Definition at line 2365 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.52 ppl_PIP_Solution_Node_tag Interface Reference

Types and functions for PIP solution nodes.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_PIP_Solution_Node_get_parametric_values (ppl_const_PIP_Solution_Node_t pip_sol, ppl_dimension_type var, ppl_const_Linear_Expression_t ∗le)

  Writes to `le` a const pointer to the parametric expression of the values of variable `var` in solution node `pip_sol`.

10.52.1 Detailed Description

Types and functions for PIP solution nodes. The types and functions for solution nodes provide an interface towards *PIP_Solution_Node*.

10.52.2 Friends And Related Function Documentation

10.52.2.1 int ppl_PIP_Solution_Node_get_parametric_values (ppl_const_PIP_Solution_Node_t *pip_sol*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t ∗ *le*) [related]

Writes to le a const pointer to the parametric expression of the values of variable var in solution node pip_sol.

The linear expression assigned to le will only refer to (problem or artificial) parameters.

Parameters

pip_sol The solution tree node.

var The variable which is queried about.

le The returned expression for variable var.

Returns

PPL_ERROR_INVALID_ARGUMENT Returned if var is dimension-incompatible with *this or if var is a problem parameter.

Definition at line 2445 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.53 ppl_PIP_Tree_Node_tag Interface Reference

Types and functions for generic PIP tree nodes.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_PIP_Tree_Node_as_solution (ppl_const_PIP_Tree_Node_t spip_tree, ppl_const_PIP_-Solution_Node_t *dpip_tree)

  Writes to dpip_tree *the solution node if* spip_tree *is a solution node, and 0 otherwise.*

- int ppl_PIP_Tree_Node_as_decision (ppl_const_PIP_Tree_Node_t spip_tree, ppl_const_PIP_-Decision_Node_t *dpip_tree)

  Writes to dpip_tree *the decision node if* spip_tree *is a decision node, and 0 otherwise.*

- int ppl_PIP_Tree_Node_get_constraints (ppl_const_PIP_Tree_Node_t pip_tree, ppl_const_-Constraint_System_t *pcs)

  Writes to pcs *the local system of parameter constraints at the pip tree node* pip_tree*.*

- int ppl_PIP_Tree_Node_OK (ppl_const_PIP_Tree_Node_t pip)

  Returns a positive integer if pip_tree *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* pip_tree *is broken. Useful for debugging purposes.*

- int ppl_PIP_Tree_Node_number_of_artificials (ppl_const_PIP_Tree_Node_t pip_tree, ppl_-dimension_type *m)

  Writes to m *the number of elements in the artificial parameter sequence in the pip tree node* pip_tree*.*

- int ppl_PIP_Tree_Node_begin (ppl_const_PIP_Tree_Node_t pip_tree, ppl_Artificial_Parameter_-Sequence_const_iterator_t pit)

  Assigns to `pit` *a const iterator "pointing" to the beginning of the artificial parameter sequence in the pip tree node* `pip_tree`*.*

- int ppl_PIP_Tree_Node_end (ppl_const_PIP_Tree_Node_t pip_tree, ppl_Artificial_Parameter_-Sequence_const_iterator_t pit)

  Assigns to `pit` *a const iterator "pointing" to the end of the artificial parameter sequence in the pip tree node* `pip_tree`*.*

10.53.1 Detailed Description

Types and functions for generic PIP tree nodes. The types and functions for tree nodes provide an interface towards *PIP_Tree_Node*.

10.53.2 Friends And Related Function Documentation

10.53.2.1 int ppl_PIP_Tree_Node_as_decision (ppl_const_PIP_Tree_Node_t *spip_tree*, ppl_const_PIP_Decision_Node_t ∗ *dpip_tree*) `[related]`

Writes to `dpip_tree` the decision node if `spip_tree` is a decision node, and 0 otherwise.

Definition at line 2389 of file ppl_c_implementation_common.cc.

10.53.2.2 int ppl_PIP_Tree_Node_as_solution (ppl_const_PIP_Tree_Node_t *spip_tree*, ppl_const_PIP_Solution_Node_t ∗ *dpip_tree*) `[related]`

Writes to `dpip_tree` the solution node if `spip_tree` is a solution node, and 0 otherwise.

Definition at line 2381 of file ppl_c_implementation_common.cc.

10.53.2.3 int ppl_PIP_Tree_Node_begin (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_Artificial_Parameter_Sequence_const_iterator_t *pit*) `[related]`

Assigns to `pit` a const iterator "pointing" to the beginning of the artificial parameter sequence in the pip tree node `pip_tree`.

Definition at line 2423 of file ppl_c_implementation_common.cc.

10.53.2.4 int ppl_PIP_Tree_Node_end (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_Artificial_Parameter_Sequence_const_iterator_t *pit*) `[related]`

Assigns to `pit` a const iterator "pointing" to the end of the artificial parameter sequence in the pip tree node `pip_tree`.

Definition at line 2434 of file ppl_c_implementation_common.cc.

10.53.2.5 int ppl_PIP_Tree_Node_get_constraints (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_const_Constraint_System_t * *pcs*) [related]

Writes to `pcs` the local system of parameter constraints at the pip tree node `pip_tree`.

Definition at line 2397 of file ppl_c_implementation_common.cc.

10.53.2.6 int ppl_PIP_Tree_Node_number_of_artificials (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_dimension_type * *m*) [related]

Writes to `m` the number of elements in the artificial parameter sequence in the pip tree node `pip_tree`.

Definition at line 2413 of file ppl_c_implementation_common.cc.

10.53.2.7 int ppl_PIP_Tree_Node_OK (ppl_const_PIP_Tree_Node_t *pip*) [related]

Returns a positive integer if `pip_tree` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `pip_tree` is broken. Useful for debugging purposes.

Definition at line 2407 of file ppl_c_implementation_common.cc.

The documentation for this interface was generated from the following file:

- ppl_c.h

10.54 ppl_Pointset_Powerset_BD_Shape_double_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_double_const_iterator (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_double_t ps, ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t psit)

- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_double_t ps, ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t ps, ppl_const_BD_Shape_double_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_double_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t psit)

10.54.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_double_tag.

10.54.2 Friends And Related Function Documentation

10.54.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_double_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t *psit*) [related]

10.54.2.2 int ppl_new_Pointset_Powerset_BD_Shape_double_const_iterator (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t ∗ *pit*) [related]

10.54.2.3 int ppl_new_Pointset_Powerset_BD_Shape_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t *y*) [related]

10.54.2.4 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t *psit*) [related]

10.54.2.5 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t *psit*) [related]

10.54.2.6 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t *ps*, ppl_const_BD_Shape_double_t ∗ *d*) [related]

10.54.2.7 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_double_t *ps*, ppl_Pointset_Powerset_BD_-Shape_double_const_iterator_t *psit*) [related]

10.54.2.8 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_const_iterator_t *y*) [related]

10.54.2.9 int ppl_Pointset_Powerset_BD_Shape_double_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_double_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.55 ppl_Pointset_Powerset_BD_Shape_double_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_double_iterator (ppl_Pointset_Powerset_BD_Shape_-double_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_double_iterator_from_iterator (ppl_Pointset_-Powerset_BD_Shape_double_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_double_-iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_iterator_begin (ppl_Pointset_Powerset_BD_Shape_-double_t ps, ppl_Pointset_Powerset_BD_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_iterator_end (ppl_Pointset_Powerset_BD_Shape_-double_t ps, ppl_Pointset_Powerset_BD_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_iterator_equal_test (ppl_const_Pointset_Powerset_-BD_Shape_double_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t y)

- int ppl_Pointset_Powerset_BD_Shape_double_iterator_increment (ppl_Pointset_Powerset_BD_-Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_iterator_decrement (ppl_Pointset_Powerset_BD_-Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_double_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_double_iterator_t ps, ppl_const_BD_Shape_double_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_double_iterator (ppl_const_Pointset_Powerset_BD_-Shape_double_iterator_t psit)

10.55.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_double_tag.

10.55.2 Friends And Related Function Documentation

10.55.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_double_iterator (ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *psit*) [related]

10.55.2.2 int ppl_new_Pointset_Powerset_BD_Shape_double_iterator (ppl_Pointset_Powerset_BD_Shape_double_iterator_t * *pit*) [related]

10.55.2.3 int ppl_new_Pointset_Powerset_BD_Shape_double_iterator_from_-iterator (ppl_Pointset_Powerset_BD_Shape_double_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *y*) [related]

10.55.2.4 int ppl_Pointset_Powerset_BD_Shape_double_iterator_begin (ppl_Pointset_Powerset_-BD_Shape_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_double_iterator_t *psit*) [related]

10.55.2.5 int ppl_Pointset_Powerset_BD_Shape_double_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_double_iterator_t *psit*) [related]

10.55.2.6 int ppl_Pointset_Powerset_BD_Shape_double_iterator_dereference (ppl_const_-Pointset_Powerset_BD_Shape_double_iterator_t *ps*, ppl_const_BD_Shape_double_t * *d*) [related]

10.55.2.7 int ppl_Pointset_Powerset_BD_Shape_double_iterator_end (ppl_Pointset_Powerset_-BD_Shape_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_double_iterator_t *psit*) [related]

10.55.2.8 int ppl_Pointset_Powerset_BD_Shape_double_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *y*) [related]

10.55.2.9 int ppl_Pointset_Powerset_BD_Shape_double_iterator_increment (ppl_Pointset_Powerset_BD_Shape_double_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.56 ppl_Pointset_Powerset_BD_Shape_double_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_double_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_-double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_space_dimension (ppl_Pointset_-Powerset_BD_Shape_double_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_Pointset_Powerset_BD_Shape_double (ppl_Pointset_Powerset_BD_Shape_double_t *pph, ppl_const_Pointset_Powerset_BD_Shape_-double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_BD_Shape_double (ppl_Pointset_-Powerset_BD_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_Pointset_Powerset_BD_Shape_double_-with_complexity (ppl_Pointset_Powerset_BD_Shape_double_t *pph, ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_BD_Shape_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_double_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_Constraint_System (ppl_Pointset_-Powerset_BD_Shape_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_double_from_Congruence_System (ppl_Pointset_-Powerset_BD_Shape_double_t *pph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_BD_Shape_double_space_dimension (ppl_const_Pointset_Powerset_-BD_Shape_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_double_affine_dimension (ppl_const_Pointset_Powerset_-BD_Shape_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Constraint (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Generator (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Congruence (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_is_empty (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_is_universe (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_is_bounded (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_contains_integer_point (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_is_topologically_closed (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_is_discrete (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_topological_closure_assign (ppl_Pointset_-Powerset_BD_Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_pairwise_reduce (ppl_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_omega_reduce (ppl_Pointset_Powerset_BD_-Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_bounds_from_above (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_double_bounds_from_below (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_double_maximize (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_double_minimize (ppl_const_Pointset_Powerset_BD_-Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_double_maximize_with_point (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_double_minimize_with_point (ppl_const_Pointset_-Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_double_contains_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_-double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_strictly_contains_Pointset_Powerset_BD_Shape_-double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_-Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_is_disjoint_from_Pointset_Powerset_BD_Shape_-double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_-Shape_double_t y)

- int ppl_Pointset_Powerset_BD_Shape_double_geometrically_covers_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_geometrically_equals_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_equals_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_OK (ppl_const_Pointset_Powerset_BD_Shape_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_double_add_constraint (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_add_congruence (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_add_constraints (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_double_add_congruences (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_double_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_double_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_double_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_double_intersection_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_difference_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_constrains (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_double_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_double_affine_image (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_BD_Shape_double_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_double_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_double_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_double_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_double_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_double_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_double_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_double_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_double_size (ppl_const_Pointset_Powerset_BD_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_double_add_disjunct (ppl_Pointset_Powerset_BD_Shape_double_t ps, ppl_const_BD_Shape_double_t d)
- int ppl_Pointset_Powerset_BD_Shape_double_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_double_t ps, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_double_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_double_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_double_t ps, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_double_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)

- int ppl_Pointset_Powerset_BD_Shape_double_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_double_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_double_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_double_t x, ppl_const_Pointset_Powerset_BD_Shape_double_t y, int disjuncts)

10.56.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_double_tag.

10.56.2 Friends And Related Function Documentation

10.56.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.2 int ppl_new_Pointset_Powerset_BD_Shape_double_from_BD_Shape_double (ppl_Pointset_Powerset_BD_Shape_double_t $*$ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.56.2.3 int ppl_new_Pointset_Powerset_BD_Shape_double_from_BD_Shape_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_double_t $*$ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.56.2.4 int ppl_new_Pointset_Powerset_BD_Shape_double_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_double_t $*$ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.56.2.5 int ppl_new_Pointset_Powerset_BD_Shape_double_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_double_t $*$ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.56.2.6 int ppl_new_Pointset_Powerset_BD_Shape_double_from_Pointset_Powerset_-BD_Shape_double (ppl_Pointset_Powerset_BD_Shape_double_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.7 int ppl_new_Pointset_Powerset_BD_Shape_double_from_Pointset_Powerset_BD_-Shape_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_double_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, int *complexity*) [related]

10.56.2.8 int ppl_new_Pointset_Powerset_BD_Shape_double_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.56.2.9 int ppl_Pointset_Powerset_BD_Shape_double_add_congruence (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.56.2.10 int ppl_Pointset_Powerset_BD_Shape_double_add_congruences (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.56.2.11 int ppl_Pointset_Powerset_BD_Shape_double_add_constraint (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.56.2.12 int ppl_Pointset_Powerset_BD_Shape_double_add_constraints (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.56.2.13 int ppl_Pointset_Powerset_BD_Shape_double_add_disjunct (ppl_Pointset_-Powerset_BD_Shape_double_t *ps*, ppl_const_BD_Shape_double_t *d*) [related]

10.56.2.14 int ppl_Pointset_Powerset_BD_Shape_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.56.2.15 int ppl_Pointset_Powerset_BD_Shape_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.56.2.16 int ppl_Pointset_Powerset_BD_Shape_double_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.56.2.17 int ppl_Pointset_Powerset_BD_Shape_double_affine_image (ppl_Pointset_Powerset_-BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.56.2.18 int ppl_Pointset_Powerset_BD_Shape_double_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.56.2.19 int ppl_Pointset_Powerset_BD_Shape_double_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*, int *disjuncts*) [related]

10.56.2.20 int ppl_Pointset_Powerset_BD_Shape_double_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*, int *disjuncts*) [related]

10.56.2.21 int ppl_Pointset_Powerset_BD_Shape_double_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.22 int ppl_Pointset_Powerset_BD_Shape_double_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.23 int ppl_Pointset_Powerset_BD_Shape_double_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.56.2.24 int ppl_Pointset_Powerset_BD_Shape_double_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.56.2.25 int ppl_Pointset_Powerset_BD_Shape_double_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.56.2.26 int ppl_Pointset_Powerset_BD_Shape_double_bounds_from_below (ppl_const_-Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.56.2.27 int ppl_Pointset_Powerset_BD_Shape_double_concatenate_assign (ppl_Pointset_-Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.28 int ppl_Pointset_Powerset_BD_Shape_double_constrains (ppl_-Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.56.2.29 int ppl_Pointset_Powerset_BD_Shape_double_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.30 int ppl_Pointset_Powerset_BD_Shape_double_contains_Pointset_Powerset_-BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.31 int ppl_Pointset_Powerset_BD_Shape_double_difference_assign (ppl_Pointset_-Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.32 int ppl_Pointset_Powerset_BD_Shape_double_drop_disjunct (ppl_Pointset_Powerset_-BD_Shape_double_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_double_iterator_t *it*) [related]

10.56.2.33 int ppl_Pointset_Powerset_BD_Shape_double_drop_disjuncts (ppl_Pointset_-Powerset_BD_Shape_double_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_double_-iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_double_iterator_t *last*) [related]

10.56.2.34 int ppl_Pointset_Powerset_BD_Shape_double_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, int *complexity*) [related]

10.56.2.35 int ppl_Pointset_Powerset_BD_Shape_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.56.2.36 int ppl_Pointset_Powerset_BD_Shape_double_equals_Pointset_Powerset_-BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.37 int ppl_Pointset_Powerset_BD_Shape_double_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.56.2.38 int ppl_Pointset_Powerset_BD_Shape_double_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_double_t *ps*, size_t ∗ *sz*) [related]

10.56.2.39 int ppl_Pointset_Powerset_BD_Shape_double_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.56.2.40 int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.56.2.41 int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.56.2.42 int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.56.2.43 int ppl_Pointset_Powerset_BD_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.56.2.44 int ppl_Pointset_Powerset_BD_Shape_double_geometrically_covers_Pointset_-Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.45 int ppl_Pointset_Powerset_BD_Shape_double_geometrically_equals_Pointset_-Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.46 int ppl_Pointset_Powerset_BD_Shape_double_intersection_assign (ppl_Pointset_-Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.47 int ppl_Pointset_Powerset_BD_Shape_double_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.48 int ppl_Pointset_Powerset_BD_Shape_double_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.49 int ppl_Pointset_Powerset_BD_Shape_double_is_disjoint_from_Pointset_-Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.50 int ppl_Pointset_Powerset_BD_Shape_double_is_empty (ppl_const_Pointset_-Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.51 int ppl_Pointset_Powerset_BD_Shape_double_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.52 int ppl_Pointset_Powerset_BD_Shape_double_is_universe (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.53 int ppl_Pointset_Powerset_BD_Shape_double_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.56.2.54 int ppl_Pointset_Powerset_BD_Shape_double_maximize (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.56.2.55 int ppl_Pointset_Powerset_BD_Shape_double_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.56.2.56 int ppl_Pointset_Powerset_BD_Shape_double_minimize (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.56.2.57 int ppl_Pointset_Powerset_BD_Shape_double_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.56.2.58 int ppl_Pointset_Powerset_BD_Shape_double_OK (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.59 int ppl_Pointset_Powerset_BD_Shape_double_omega_reduce (ppl_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.60 int ppl_Pointset_Powerset_BD_Shape_double_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.61 int ppl_Pointset_Powerset_BD_Shape_double_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.56.2.62 int ppl_Pointset_Powerset_BD_Shape_double_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.56.2.63 int ppl_Pointset_Powerset_BD_Shape_double_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.56.2.64 int ppl_Pointset_Powerset_BD_Shape_double_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.56.2.65 int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.56.2.66 int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.56.2.67 int ppl_Pointset_Powerset_BD_Shape_double_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.56.2.68 int ppl_Pointset_Powerset_BD_Shape_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *d*) `[related]`

10.56.2.69 int ppl_Pointset_Powerset_BD_Shape_double_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.56.2.70 int ppl_Pointset_Powerset_BD_Shape_double_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.71 int ppl_Pointset_Powerset_BD_Shape_double_size (ppl_const_Pointset_Powerset_BD_Shape_double_t *ps*, size_t * *sz*) [related]

10.56.2.72 int ppl_Pointset_Powerset_BD_Shape_double_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type * *m*) [related]

10.56.2.73 int ppl_Pointset_Powerset_BD_Shape_double_strictly_contains_Pointset_Powerset_BD_Shape_double (ppl_const_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.74 int ppl_Pointset_Powerset_BD_Shape_double_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.75 int ppl_Pointset_Powerset_BD_Shape_double_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_double_t *ph*) [related]

10.56.2.76 int ppl_Pointset_Powerset_BD_Shape_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_double_t *ps*, size_t * *sz*) [related]

10.56.2.77 int ppl_Pointset_Powerset_BD_Shape_double_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.56.2.78 int ppl_Pointset_Powerset_BD_Shape_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.56.2.79 int ppl_Pointset_Powerset_BD_Shape_double_upper_bound_assign (ppl_Pointset_-Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

10.56.2.80 int ppl_Pointset_Powerset_BD_Shape_double_upper_bound_-assign_if_exact (ppl_Pointset_Powerset_BD_Shape_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_double_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.57 ppl_Pointset_Powerset_BD_Shape_float_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_float_const_iterator (ppl_Pointset_Powerset_BD_-Shape_float_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_float_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_BD_Shape_float_const_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_-Shape_float_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_begin (ppl_const_Pointset_Powerset_-BD_Shape_float_t ps, ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_end (ppl_const_Pointset_Powerset_-BD_Shape_float_t ps, ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_equal_test (ppl_const_Pointset_-Powerset_BD_Shape_float_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_float_-const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_increment (ppl_Pointset_Powerset_-BD_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_decrement (ppl_Pointset_Powerset_-BD_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_float_const_iterator_t ps, ppl_const_BD_Shape_float_t ∗d)

- int ppl_delete_Pointset_Powerset_BD_Shape_float_const_iterator (ppl_const_Pointset_Powerset_-BD_Shape_float_const_iterator_t psit)

10.57.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_float_tag.

10.57.2 Friends And Related Function Documentation

10.57.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_float_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_float_const_iterator_t *psit*) [related]

10.57.2.2 int ppl_new_Pointset_Powerset_BD_Shape_float_const_iterator (ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t $*$ *pit*) [related]

10.57.2.3 int ppl_new_Pointset_Powerset_BD_Shape_float_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t $*$ *px*, ppl_const_Pointset_Powerset_BD_Shape_float_const_iterator_t *y*) [related]

10.57.2.4 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_float_t *ps*, ppl_Pointset_Powerset_BD_-Shape_float_const_iterator_t *psit*) [related]

10.57.2.5 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t *psit*) [related]

10.57.2.6 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_float_const_iterator_t *ps*, ppl_const_BD_Shape_float_t $*$ *d*) [related]

10.57.2.7 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_float_t *ps*, ppl_Pointset_Powerset_BD_-Shape_float_const_iterator_t *psit*) [related]

10.57.2.8 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_float_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_const_iterator_t *y*) [related]

10.57.2.9 int ppl_Pointset_Powerset_BD_Shape_float_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_float_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.58 ppl_Pointset_Powerset_BD_Shape_float_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_float_iterator (ppl_Pointset_Powerset_BD_Shape_float_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_float_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_float_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_begin (ppl_Pointset_Powerset_BD_Shape_float_t ps, ppl_Pointset_Powerset_BD_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_end (ppl_Pointset_Powerset_BD_Shape_float_t ps, ppl_Pointset_Powerset_BD_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_increment (ppl_Pointset_Powerset_BD_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_float_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t ps, ppl_const_BD_Shape_float_t ∗d)
- int ppl_delete_Pointset_Powerset_BD_Shape_float_iterator (ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t psit)

10.58.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_float_tag.

10.58.2 Friends And Related Function Documentation

10.58.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_float_iterator (ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *psit*) [related]

10.58.2.2 int ppl_new_Pointset_Powerset_BD_Shape_float_iterator (ppl_Pointset_Powerset_BD_-Shape_float_iterator_t ∗ *pit*) [related]

10.58.2.3 int ppl_new_Pointset_Powerset_BD_Shape_float_iterator_from_-iterator (ppl_Pointset_Powerset_BD_Shape_float_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *y*) [related]

10.58.2.4 int ppl_Pointset_Powerset_BD_Shape_float_iterator_begin (ppl_Pointset_Powerset_-BD_Shape_float_t *ps*, ppl_Pointset_Powerset_BD_Shape_float_iterator_t *psit*) [related]

10.58.2.5 int ppl_Pointset_Powerset_BD_Shape_float_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_float_iterator_t *psit*) [related]

10.58.2.6 int ppl_Pointset_Powerset_BD_Shape_float_iterator_dereference (ppl_const_-Pointset_Powerset_BD_Shape_float_iterator_t *ps*, ppl_const_BD_Shape_float_t ∗ *d*) [related]

10.58.2.7 int ppl_Pointset_Powerset_BD_Shape_float_iterator_end (ppl_Pointset_Powerset_-BD_Shape_float_t *ps*, ppl_Pointset_Powerset_BD_Shape_float_iterator_t *psit*) [related]

10.58.2.8 int ppl_Pointset_Powerset_BD_Shape_float_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *y*) [related]

10.58.2.9 int ppl_Pointset_Powerset_BD_Shape_float_iterator_increment (ppl_Pointset_Powerset_BD_Shape_float_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.59 ppl_Pointset_Powerset_BD_Shape_float_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_float_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_Pointset_Powerset_BD_Shape_float (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_BD_Shape_float (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_Pointset_Powerset_BD_Shape_float_with_complexity (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_Pointset_Powerset_BD_Shape_float_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_BD_Shape_float_with_complexity (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_float_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_float_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_float_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_float_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_is_empty (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_is_universe (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)

- int ppl_Pointset_Powerset_BD_Shape_float_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_omega_reduce (ppl_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_float_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_float_maximize (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_float_minimize (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_float_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_float_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_float_contains_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_strictly_contains_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_is_disjoint_from_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_geometrically_covers_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_geometrically_equals_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_equals_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_OK (ppl_const_Pointset_Powerset_BD_Shape_float_t ph)
- int ppl_Pointset_Powerset_BD_Shape_float_add_constraint (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_add_congruence (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_BD_Shape_float_add_constraints (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_float_add_congruences (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_float_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_float_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_float_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_float_intersection_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_difference_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_constrains (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_float_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_float_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_float_affine_image (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_affine_preimage (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_float_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_float_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_float_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_float_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_float_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_float_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_float_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_float_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_float_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_float_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_float_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_float_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_float_size (ppl_const_Pointset_Powerset_BD_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_float_add_disjunct (ppl_Pointset_Powerset_BD_Shape_float_t ps, ppl_const_BD_Shape_float_t d)
- int ppl_Pointset_Powerset_BD_Shape_float_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_float_t ps, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_float_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_float_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_float_t ps, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_float_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y)
- int ppl_Pointset_Powerset_BD_Shape_float_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_float_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_float_t x, ppl_const_Pointset_Powerset_BD_Shape_float_t y, int disjuncts)

10.59.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_float_tag.

10.59.2 Friends And Related Function Documentation

10.59.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_-Shape_float_t *ph*) [related]

10.59.2.2 int ppl_new_Pointset_Powerset_BD_Shape_float_from_BD_Shape_float (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.59.2.3 int ppl_new_Pointset_Powerset_BD_Shape_float_from_BD_Shape_-float_with_complexity (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.59.2.4 int ppl_new_Pointset_Powerset_BD_Shape_float_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.59.2.5 int ppl_new_Pointset_Powerset_BD_Shape_float_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.59.2.6 int ppl_new_Pointset_Powerset_BD_Shape_float_from_Pointset_Powerset_-BD_Shape_float (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*) [related]

10.59.2.7 int ppl_new_Pointset_Powerset_BD_Shape_float_from_Pointset_Powerset_BD_-Shape_float_with_complexity (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, int *complexity*) [related]

10.59.2.8 int ppl_new_Pointset_Powerset_BD_Shape_float_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.59.2.9 int ppl_Pointset_Powerset_BD_Shape_float_add_congruence (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.59.2.10 int ppl_Pointset_Powerset_BD_Shape_float_add_congruences (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.59.2.11 int ppl_Pointset_Powerset_BD_Shape_float_add_constraint (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.59.2.12 int ppl_Pointset_Powerset_BD_Shape_float_add_constraints (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.59.2.13 int ppl_Pointset_Powerset_BD_Shape_float_add_disjunct (ppl_Pointset_Powerset_BD_Shape_float_t *ps*, ppl_const_BD_Shape_float_t *d*) [related]

10.59.2.14 int ppl_Pointset_Powerset_BD_Shape_float_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.59.2.15 int ppl_Pointset_Powerset_BD_Shape_float_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.59.2.16 int ppl_Pointset_Powerset_BD_Shape_float_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type * *m*) [related]

10.59.2.17 int ppl_Pointset_Powerset_BD_Shape_float_affine_image (ppl_Pointset_Powerset_-BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.59.2.18 int ppl_Pointset_Powerset_BD_Shape_float_affine_preimage (ppl_Pointset_Powerset_-BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.59.2.19 int ppl_Pointset_Powerset_BD_Shape_float_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*, int *disjuncts*) [related]

10.59.2.20 int ppl_Pointset_Powerset_BD_Shape_float_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_-Shape_float_t *y*, int *disjuncts*) [related]

10.59.2.21 int ppl_Pointset_Powerset_BD_Shape_float_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.22 int ppl_Pointset_Powerset_BD_Shape_float_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.23 int ppl_Pointset_Powerset_BD_Shape_float_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.59.2.24 int ppl_Pointset_Powerset_BD_Shape_float_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.59.2.25 int ppl_Pointset_Powerset_BD_Shape_float_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.59.2.26 int ppl_Pointset_Powerset_BD_Shape_float_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.59.2.27 int ppl_Pointset_Powerset_BD_Shape_float_concatenate_assign (ppl_Pointset_-Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.28 int ppl_Pointset_Powerset_BD_Shape_float_constrains (ppl_-Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.59.2.29 int ppl_Pointset_Powerset_BD_Shape_float_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*) [related]

10.59.2.30 int ppl_Pointset_Powerset_BD_Shape_float_contains_Pointset_Powerset_-BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.31 int ppl_Pointset_Powerset_BD_Shape_float_difference_assign (ppl_Pointset_-Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.32 int ppl_Pointset_Powerset_BD_Shape_float_drop_disjunct (ppl_Pointset_Powerset_-BD_Shape_float_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_float_iterator_t *it*) [related]

10.59.2.33 int ppl_Pointset_Powerset_BD_Shape_float_drop_disjuncts (ppl_Pointset_Powerset_-BD_Shape_float_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_float_iterator_t *last*) [related]

10.59.2.34 int ppl_Pointset_Powerset_BD_Shape_float_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, int *complexity*) [related]

10.59.2.35 int ppl_Pointset_Powerset_BD_Shape_float_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.59.2.36 int ppl_Pointset_Powerset_BD_Shape_float_equals_Pointset_Powerset_-BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.37 int ppl_Pointset_Powerset_BD_Shape_float_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.59.2.38 int ppl_Pointset_Powerset_BD_Shape_float_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_float_t *ps*, size_t * *sz*) [related]

10.59.2.39 int ppl_Pointset_Powerset_BD_Shape_float_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.59.2.40 int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.59.2.41 int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.59.2.42 int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.59.2.43 int ppl_Pointset_Powerset_BD_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.59.2.44 int ppl_Pointset_Powerset_BD_Shape_float_geometrically_covers_Pointset_-Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) `[related]`

10.59.2.45 int ppl_Pointset_Powerset_BD_Shape_float_geometrically_equals_Pointset_-Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) `[related]`

10.59.2.46 int ppl_Pointset_Powerset_BD_Shape_float_intersection_assign (ppl_Pointset_-Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) `[related]`

10.59.2.47 int ppl_Pointset_Powerset_BD_Shape_float_is_bounded (ppl_const_Pointset_-Powerset_BD_Shape_float_t *ph*) `[related]`

10.59.2.48 int ppl_Pointset_Powerset_BD_Shape_float_is_discrete (ppl_const_Pointset_-Powerset_BD_Shape_float_t *ph*) `[related]`

10.59.2.49 int ppl_Pointset_Powerset_BD_Shape_float_is_disjoint_from_Pointset_-Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) `[related]`

10.59.2.50 int ppl_Pointset_Powerset_BD_Shape_float_is_empty (ppl_const_Pointset_Powerset_-BD_Shape_float_t *ph*) `[related]`

10.59.2.51 int ppl_Pointset_Powerset_BD_Shape_float_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*) `[related]`

10.59.2.52 int ppl_Pointset_Powerset_BD_Shape_float_is_universe (ppl_const_Pointset_-Powerset_BD_Shape_float_t *ph*) `[related]`

10.59.2.53 int ppl_Pointset_Powerset_BD_Shape_float_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) `[related]`

10.59.2.54 int ppl_Pointset_Powerset_BD_Shape_float_maximize (ppl_const_Pointset_Powerset_-BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.59.2.55 int ppl_Pointset_Powerset_BD_Shape_float_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.59.2.56 int ppl_Pointset_Powerset_BD_Shape_float_minimize (ppl_const_Pointset_Powerset_-BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.59.2.57 int ppl_Pointset_Powerset_BD_Shape_float_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.59.2.58 int ppl_Pointset_Powerset_BD_Shape_float_OK (ppl_const_Pointset_Powerset_BD_-Shape_float_t *ph*) [related]

10.59.2.59 int ppl_Pointset_Powerset_BD_Shape_float_omega_reduce (ppl_Pointset_Powerset_BD_Shape_float_t *ph*) [related]

10.59.2.60 int ppl_Pointset_Powerset_BD_Shape_float_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_float_t *ph*) [related]

10.59.2.61 int ppl_Pointset_Powerset_BD_Shape_float_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.59.2.62 int ppl_Pointset_Powerset_BD_Shape_float_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.59.2.63 int ppl_Pointset_Powerset_BD_Shape_float_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.59.2.64 int ppl_Pointset_Powerset_BD_Shape_float_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.59.2.65 int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.59.2.66 int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.59.2.67 int ppl_Pointset_Powerset_BD_Shape_float_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_const_Generator_t *c*) [related]

10.59.2.68 int ppl_Pointset_Powerset_BD_Shape_float_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.59.2.69 int ppl_Pointset_Powerset_BD_Shape_float_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.59.2.70 int ppl_Pointset_Powerset_BD_Shape_float_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_-Shape_float_t *y*) [related]

10.59.2.71 int ppl_Pointset_Powerset_BD_Shape_float_size (ppl_const_Pointset_Powerset_BD_-Shape_float_t *ps*, size_t ∗ *sz*) [related]

10.59.2.72 int ppl_Pointset_Powerset_BD_Shape_float_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.59.2.73 int ppl_Pointset_Powerset_BD_Shape_float_strictly_contains_Pointset_-Powerset_BD_Shape_float (ppl_const_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.74 int ppl_Pointset_Powerset_BD_Shape_float_time_elapse_assign (ppl_Pointset_-Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.75 int ppl_Pointset_Powerset_BD_Shape_float_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_float_t *ph*) [related]

10.59.2.76 int ppl_Pointset_Powerset_BD_Shape_float_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_float_t *ps*, size_t * *sz*) [related]

10.59.2.77 int ppl_Pointset_Powerset_BD_Shape_float_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.59.2.78 int ppl_Pointset_Powerset_BD_Shape_float_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.59.2.79 int ppl_Pointset_Powerset_BD_Shape_float_upper_bound_assign (ppl_Pointset_-Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_Shape_float_t *y*) [related]

10.59.2.80 int ppl_Pointset_Powerset_BD_Shape_float_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_float_t *x*, ppl_const_Pointset_Powerset_BD_-Shape_float_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.60 ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int16_t_-tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_const_iterator (ppl_Pointset_Powerset_BD_-Shape_int16_t_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *px, ppl_const_Pointset_Powerset_BD_-Shape_int16_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_begin (ppl_const_Pointset_-Powerset_BD_Shape_int16_t_t ps, ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_end (ppl_const_Pointset_Powerset_-BD_Shape_int16_t_t ps, ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_equal_test (ppl_const_Pointset_-Powerset_BD_Shape_int16_t_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_-t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_increment (ppl_Pointset_Powerset_-BD_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_decrement (ppl_Pointset_Powerset_-BD_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_int16_t_const_iterator_t ps, ppl_const_BD_Shape_int16_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int16_t_const_iterator (ppl_const_Pointset_-Powerset_BD_Shape_int16_t_const_iterator_t psit)

10.60.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int16_t_-tag.

10.60.2 Friends And Related Function Documentation

10.60.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int16_t_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *psit*) [related]

10.60.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t * *pit*) [related]

10.60.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *y*) `[related]`

10.60.2.4 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int16_t_const_iterator_t *psit*) `[related]`

10.60.2.5 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *psit*) `[related]`

10.60.2.6 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *ps*, ppl_const_BD_Shape_int16_t_t * *d*) `[related]`

10.60.2.7 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int16_t_const_iterator_t *psit*) `[related]`

10.60.2.8 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *y*) `[related]`

10.60.2.9 int ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int16_t_const_iterator_t *psit*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.61 ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int16_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_begin (ppl_Pointset_Powerset_BD_Shape_int16_t_t ps, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_int16_t_t ps, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t ps, ppl_const_BD_Shape_int16_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int16_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t psit)

10.61.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int16_t_tag.

10.61.2 Friends And Related Function Documentation

10.61.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int16_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *psit*) [related]

10.61.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t * *pit*) [related]

10.61.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *y*) [related]

10.61.2.4 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_begin (ppl_Pointset_Powerset_-BD_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *psit*) [related]

10.61.2.5 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *psit*) [related]

10.61.2.6 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_dereference (ppl_const_-Pointset_Powerset_BD_Shape_int16_t_iterator_t *ps*, ppl_const_BD_Shape_int16_t_t * *d*) [related]

10.61.2.7 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_end (ppl_Pointset_Powerset_-BD_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *psit*) [related]

10.61.2.8 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *y*) [related]

10.61.2.9 int ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.62 ppl_Pointset_Powerset_BD_Shape_int16_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_int16_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_-int16_t_t ph)

- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Pointset_Powerset_BD_Shape_int16_t (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Pointset_Powerset_BD_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int16_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_empty (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)

- int ppl_Pointset_Powerset_BD_Shape_int16_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_contains_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_strictly_contains_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_geometrically_covers_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_geometrically_equals_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_equals_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_intersection_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_difference_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)

- int ppl_Pointset_Powerset_BD_Shape_int16_t_concatenate_assign (ppl_Pointset_Powerset_BD_-Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_time_elapse_assign (ppl_Pointset_Powerset_BD_-Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_upper_bound_assign_if_exact (ppl_Pointset_-Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_simplify_using_context_assign (ppl_Pointset_-Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_constrains (ppl_Pointset_Powerset_BD_Shape_-int16_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_unconstrain_space_dimension (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_unconstrain_space_dimensions (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_image (ppl_Pointset_Powerset_BD_Shape_-int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_preimage (ppl_Pointset_Powerset_BD_-Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_-Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_bounded_affine_image (ppl_Pointset_Powerset_-BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_-Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_bounded_affine_preimage (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_image (ppl_Pointset_Powerset_-BD_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_-const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_preimage (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_-Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_-Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_-Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_space_dimensions_and_embed (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_space_dimensions_and_project (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_remove_space_dimensions (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_remove_higher_space_dimensions (ppl_Pointset_-Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_expand_space_dimension (ppl_Pointset_Powerset_-BD_Shape_int16_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_fold_space_dimensions (ppl_Pointset_Powerset_-BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_map_space_dimensions (ppl_Pointset_Powerset_-BD_Shape_int16_t_t ph, ppl_dimension_type maps[ ], size_t n)

- int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_size (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_int16_t_t ps, ppl_const_BD_Shape_int16_t_t d)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_int16_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_int16_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_int16_t_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t y, int disjuncts)

10.62.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_int16_t_tag.

10.62.2 Friends And Related Function Documentation

10.62.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) `[related]`

10.62.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_BD_Shape_int16_t (ppl_Pointset_Powerset_BD_Shape_int16_t_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) `[related]`

10.62.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_BD_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.62.2.4 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.62.2.5 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.62.2.6 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Pointset_Powerset_BD_Shape_int16_t (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.7 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_Pointset_Powerset_BD_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.62.2.8 int ppl_new_Pointset_Powerset_BD_Shape_int16_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int16_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.62.2.9 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.62.2.10 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.62.2.11 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.62.2.12 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.62.2.13 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ps*, ppl_const_BD_Shape_int16_t_t *d*) [related]

10.62.2.14 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.62.2.15 int ppl_Pointset_Powerset_BD_Shape_int16_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.62.2.16 int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.62.2.17 int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_image (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.62.2.18 int ppl_Pointset_Powerset_BD_Shape_int16_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.62.2.19 int ppl_Pointset_Powerset_BD_Shape_int16_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*, int *disjuncts*) [related]

10.62.2.20 int ppl_Pointset_Powerset_BD_Shape_int16_t_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*, int *disjuncts*) [related]

10.62.2.21 int ppl_Pointset_Powerset_BD_Shape_int16_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.22 int ppl_Pointset_Powerset_BD_Shape_int16_t_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.23 int ppl_Pointset_Powerset_BD_Shape_int16_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.62.2.24 int ppl_Pointset_Powerset_BD_Shape_int16_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.62.2.25 int ppl_Pointset_Powerset_BD_Shape_int16_t_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.62.2.26 int ppl_Pointset_Powerset_BD_Shape_int16_t_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.62.2.27 int ppl_Pointset_Powerset_BD_Shape_int16_t_concatenate_assign (ppl_Pointset_-Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.28 int ppl_Pointset_Powerset_BD_Shape_int16_t_constrains (ppl_-Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.62.2.29 int ppl_Pointset_Powerset_BD_Shape_int16_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.30 int ppl_Pointset_Powerset_BD_Shape_int16_t_contains_Pointset_Powerset_-BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.31 int ppl_Pointset_Powerset_BD_Shape_int16_t_difference_assign (ppl_Pointset_-Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.32 int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_disjunct (ppl_Pointset_Powerset_-BD_Shape_int16_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_int16_t_iterator_t *it*) [related]

10.62.2.33 int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_disjuncts (ppl_Pointset_-Powerset_BD_Shape_int16_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int16_-t_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_iterator_t *last*) [related]

10.62.2.34 int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.62.2.35 int ppl_Pointset_Powerset_BD_Shape_int16_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.62.2.36 int ppl_Pointset_Powerset_BD_Shape_int16_t_equals_Pointset_Powerset_-BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.37 int ppl_Pointset_Powerset_BD_Shape_int16_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.62.2.38 int ppl_Pointset_Powerset_BD_Shape_int16_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ps*, size_t ∗ *sz*) [related]

10.62.2.39 int ppl_Pointset_Powerset_BD_Shape_int16_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.62.2.40 int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.62.2.41 int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.62.2.42 int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.62.2.43 int ppl_Pointset_Powerset_BD_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.62.2.44 int ppl_Pointset_Powerset_BD_Shape_int16_t_geometrically_covers_Pointset_-Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.45 int ppl_Pointset_Powerset_BD_Shape_int16_t_geometrically_equals_Pointset_-Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.46 int ppl_Pointset_Powerset_BD_Shape_int16_t_intersection_assign (ppl_Pointset_-Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.47 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.48 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.49 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_disjoint_from_Pointset_-Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.50 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_empty (ppl_const_Pointset_-Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.51 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.52 int ppl_Pointset_Powerset_BD_Shape_int16_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.53 int ppl_Pointset_Powerset_BD_Shape_int16_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.62.2.54 int ppl_Pointset_Powerset_BD_Shape_int16_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.62.2.55 int ppl_Pointset_Powerset_BD_Shape_int16_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.62.2.56 int ppl_Pointset_Powerset_BD_Shape_int16_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.62.2.57 int ppl_Pointset_Powerset_BD_Shape_int16_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.62.2.58 int ppl_Pointset_Powerset_BD_Shape_int16_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.59 int ppl_Pointset_Powerset_BD_Shape_int16_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.60 int ppl_Pointset_Powerset_BD_Shape_int16_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*) [related]

10.62.2.61 int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.62.2.62 int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.62.2.63 int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.62.2.64 int ppl_Pointset_Powerset_BD_Shape_int16_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.62.2.65 int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.62.2.66 int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.62.2.67 int ppl_Pointset_Powerset_BD_Shape_int16_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.62.2.68 int ppl_Pointset_Powerset_BD_Shape_int16_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.62.2.69 int ppl_Pointset_Powerset_BD_Shape_int16_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.62.2.70 int ppl_Pointset_Powerset_BD_Shape_int16_t_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.71 int ppl_Pointset_Powerset_BD_Shape_int16_t_size (ppl_const_Pointset_Powerset_-BD_Shape_int16_t_t *ps*, size_t * *sz*) [related]

10.62.2.72 int ppl_Pointset_Powerset_BD_Shape_int16_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type * *m*) [related]

10.62.2.73 int ppl_Pointset_Powerset_BD_Shape_int16_t_strictly_contains_Pointset_-Powerset_BD_Shape_int16_t (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.74 int ppl_Pointset_Powerset_BD_Shape_int16_t_time_elapse_assign (ppl_Pointset_-Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) [related]

10.62.2.75 int ppl_Pointset_Powerset_BD_Shape_int16_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*) `[related]`

10.62.2.76 int ppl_Pointset_Powerset_BD_Shape_int16_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *ps*, size_t ∗ *sz*) `[related]`

10.62.2.77 int ppl_Pointset_Powerset_BD_Shape_int16_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *var*) `[related]`

10.62.2.78 int ppl_Pointset_Powerset_BD_Shape_int16_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.62.2.79 int ppl_Pointset_Powerset_BD_Shape_int16_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) `[related]`

10.62.2.80 int ppl_Pointset_Powerset_BD_Shape_int16_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int16_t_t *y*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.63 ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int32_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_const_iterator (ppl_Pointset_Powerset_BD_-Shape_int32_t_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *px, ppl_const_Pointset_Powerset_BD_-Shape_int32_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_begin (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ps, ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_end (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t ps, ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_equal_test (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_-t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_increment (ppl_Pointset_Powerset_-BD_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_decrement (ppl_Pointset_Powerset_-BD_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_const_iterator_t ps, ppl_const_BD_Shape_int32_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int32_t_const_iterator (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_const_iterator_t psit)

10.63.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int32_t_-tag.

10.63.2 Friends And Related Function Documentation

10.63.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int32_t_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *psit*) [related]

10.63.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t * *pit*) [related]

10.63.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *y*) [related]

10.63.2.4 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int32_t_const_iterator_t *psit*) [related]

10.63.2.5 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *psit*) [related]

10.63.2.6 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *ps*, ppl_const_BD_Shape_int32_t_t ∗ *d*) [related]

10.63.2.7 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *psit*) [related]

10.63.2.8 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *y*) [related]

10.63.2.9 int ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int32_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.64 ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_begin (ppl_Pointset_Powerset_BD_Shape_int32_t_t ps, ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t psit)

- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_-int32_t_t ps, ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_equal_test (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_increment (ppl_Pointset_Powerset_BD_-Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_decrement (ppl_Pointset_Powerset_BD_-Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_iterator_t ps, ppl_const_BD_Shape_int32_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int32_t_iterator (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_iterator_t psit)

10.64.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int32_t_tag.

10.64.2 Friends And Related Function Documentation

10.64.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int32_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *psit*) [related]

10.64.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t * *pit*) [related]

10.64.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_iterator_from_-iterator (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *y*) [related]

10.64.2.4 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_begin (ppl_Pointset_Powerset_-BD_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t *psit*) [related]

10.64.2.5 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t *psit*) [related]

10.64.2.6 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *ps*, ppl_const_BD_Shape_int32_t_t * *d*) [related]

10.64.2.7 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t *psit*) [related]

10.64.2.8 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *y*) [related]

10.64.2.9 int ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.65 ppl_Pointset_Powerset_BD_Shape_int32_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Pointset_Powerset_BD_Shape_int32_t (ppl_Pointset_Powerset_BD_Shape_int32_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_Pointset_Powerset_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Pointset_Powerset_BD_Shape_int32_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int32_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ph, int complexity)

- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_BD_Shape_int32_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int32_t_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Constraint_System (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Congruence_System (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_space_dimension (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_dimension (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Constraint (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Generator (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Congruence (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_empty (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_universe (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_bounded (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_contains_integer_point (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_topologically_closed (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_discrete (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_topological_closure_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_pairwise_reduce (ppl_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_omega_reduce (ppl_Pointset_Powerset_BD_-Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_bounds_from_above (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_bounds_from_below (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_maximize (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_minimize (ppl_const_Pointset_Powerset_BD_-Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_maximize_with_point (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_minimize_with_point (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_BD_Shape_int32_t_contains_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_strictly_contains_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_geometrically_covers_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_geometrically_equals_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_equals_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_intersection_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_difference_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_constrains (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var)

- int ppl_Pointset_Powerset_BD_Shape_int32_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_size (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t ps, size_t *sz)

- int ppl_Pointset_Powerset_BD_Shape_int32_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_-int32_t_t ps, ppl_const_BD_Shape_int32_t_t d)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_-int32_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t cit, ppl_Pointset_-Powerset_BD_Shape_int32_t_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_disjuncts (ppl_Pointset_Powerset_BD_-Shape_int32_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t first, ppl_const_-Pointset_Powerset_BD_Shape_int32_t_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_BHZ03_H79_BHMZ05_widening_assign (ppl_-Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_BHZ03_H79_H79_widening_assign (ppl_-Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_BGP99_BHMZ05_extrapolation_assign (ppl_-Pointset_Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_int32_t_BGP99_H79_extrapolation_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t y, int disjuncts)

10.65.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_int32_t_tag.

10.65.2 Friends And Related Function Documentation

10.65.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t *ph*) [related]

10.65.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_BD_Shape_int32_t (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.65.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_BD_Shape_int32_-t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.65.2.4 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.65.2.5 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.65.2.6 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Pointset_Powerset_-BD_Shape_int32_t (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.7 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_Pointset_Powerset_BD_-Shape_int32_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.65.2.8 int ppl_new_Pointset_Powerset_BD_Shape_int32_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.65.2.9 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.65.2.10 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.65.2.11 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.65.2.12 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.65.2.13 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ps*, ppl_const_BD_Shape_int32_t_t *d*) [related]

10.65.2.14 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.65.2.15 int ppl_Pointset_Powerset_BD_Shape_int32_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.65.2.16 int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.65.2.17 int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.65.2.18 int ppl_Pointset_Powerset_BD_Shape_int32_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.65.2.19 int ppl_Pointset_Powerset_BD_Shape_int32_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*, int *disjuncts*) [related]

10.65.2.20 int ppl_Pointset_Powerset_BD_Shape_int32_t_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*, int *disjuncts*) [related]

10.65.2.21 int ppl_Pointset_Powerset_BD_Shape_int32_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) `[related]`

10.65.2.22 int ppl_Pointset_Powerset_BD_Shape_int32_t_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) `[related]`

10.65.2.23 int ppl_Pointset_Powerset_BD_Shape_int32_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.65.2.24 int ppl_Pointset_Powerset_BD_Shape_int32_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.65.2.25 int ppl_Pointset_Powerset_BD_Shape_int32_t_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.65.2.26 int ppl_Pointset_Powerset_BD_Shape_int32_t_bounds_from_below (ppl_const_-Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.65.2.27 int ppl_Pointset_Powerset_BD_Shape_int32_t_concatenate_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) `[related]`

10.65.2.28 int ppl_Pointset_Powerset_BD_Shape_int32_t_constrains (ppl_-Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*) `[related]`

10.65.2.29 int ppl_Pointset_Powerset_BD_Shape_int32_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.30 int ppl_Pointset_Powerset_BD_Shape_int32_t_contains_Pointset_Powerset_-BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.31 int ppl_Pointset_Powerset_BD_Shape_int32_t_difference_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.32 int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_disjunct (ppl_Pointset_Powerset_-BD_Shape_int32_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_int32_t_iterator_t *it*) [related]

10.65.2.33 int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_disjuncts (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int32_-t_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_iterator_t *last*) [related]

10.65.2.34 int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.65.2.35 int ppl_Pointset_Powerset_BD_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.65.2.36 int ppl_Pointset_Powerset_BD_Shape_int32_t_equals_Pointset_Powerset_-BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.37 int ppl_Pointset_Powerset_BD_Shape_int32_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.65.2.38 int ppl_Pointset_Powerset_BD_Shape_int32_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.65.2.39 int ppl_Pointset_Powerset_BD_Shape_int32_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.65.2.40 int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.65.2.41 int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.65.2.42 int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.65.2.43 int ppl_Pointset_Powerset_BD_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.65.2.44 int ppl_Pointset_Powerset_BD_Shape_int32_t_geometrically_covers_Pointset_-Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.45 int ppl_Pointset_Powerset_BD_Shape_int32_t_geometrically_equals_Pointset_-Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.46 int ppl_Pointset_Powerset_BD_Shape_int32_t_intersection_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.47 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.48 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.49 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_disjoint_from_Pointset_-Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.50 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_empty (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.51 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.52 int ppl_Pointset_Powerset_BD_Shape_int32_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.53 int ppl_Pointset_Powerset_BD_Shape_int32_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.65.2.54 int ppl_Pointset_Powerset_BD_Shape_int32_t_maximize (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.65.2.55 int ppl_Pointset_Powerset_BD_Shape_int32_t_maximize_with_point (ppl_const_-Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.65.2.56 int ppl_Pointset_Powerset_BD_Shape_int32_t_minimize (ppl_const_Pointset_-Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.65.2.57 int ppl_Pointset_Powerset_BD_Shape_int32_t_minimize_with_point (ppl_const_-Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.65.2.58 int ppl_Pointset_Powerset_BD_Shape_int32_t_OK (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t *ph*) [related]

10.65.2.59 int ppl_Pointset_Powerset_BD_Shape_int32_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.60 int ppl_Pointset_Powerset_BD_Shape_int32_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.61 int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.65.2.62 int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.65.2.63 int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.65.2.64 int ppl_Pointset_Powerset_BD_Shape_int32_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.65.2.65 int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.65.2.66 int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.65.2.67 int ppl_Pointset_Powerset_BD_Shape_int32_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.65.2.68 int ppl_Pointset_Powerset_BD_Shape_int32_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.65.2.69 int ppl_Pointset_Powerset_BD_Shape_int32_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.65.2.70 int ppl_Pointset_Powerset_BD_Shape_int32_t_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.71 int ppl_Pointset_Powerset_BD_Shape_int32_t_size (ppl_const_Pointset_Powerset_-BD_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.65.2.72 int ppl_Pointset_Powerset_BD_Shape_int32_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.65.2.73 int ppl_Pointset_Powerset_BD_Shape_int32_t_strictly_contains_Pointset_-Powerset_BD_Shape_int32_t (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.74 int ppl_Pointset_Powerset_BD_Shape_int32_t_time_elapse_assign (ppl_Pointset_-Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.75 int ppl_Pointset_Powerset_BD_Shape_int32_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*) [related]

10.65.2.76 int ppl_Pointset_Powerset_BD_Shape_int32_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.65.2.77 int ppl_Pointset_Powerset_BD_Shape_int32_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.65.2.78 int ppl_Pointset_Powerset_BD_Shape_int32_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.65.2.79 int ppl_Pointset_Powerset_BD_Shape_int32_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

10.65.2.80 int ppl_Pointset_Powerset_BD_Shape_int32_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int32_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.66 ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ps, ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ps, ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t psit)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t ps, ppl_const_BD_Shape_int64_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int64_t_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t psit)

10.66.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

10.66.2 Friends And Related Function Documentation

10.66.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int64_t_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *psit*) `[related]`

10.66.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t * *pit*) `[related]`

10.66.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *y*) `[related]`

10.66.2.4 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *psit*) `[related]`

10.66.2.5 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *psit*) `[related]`

10.66.2.6 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *ps*, ppl_const_BD_Shape_int64_t_t ∗ *d*) [related]

10.66.2.7 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int64_t_const_iterator_t *psit*) [related]

10.66.2.8 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *y*) [related]

10.66.2.9 int ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int64_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.67 ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_iterator (ppl_Pointset_Powerset_BD_Shape_-int64_t_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_iterator_from_iterator (ppl_Pointset_-Powerset_BD_Shape_int64_t_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_int64_-t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_begin (ppl_Pointset_Powerset_BD_-Shape_int64_t_t ps, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_-int64_t_t ps, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_equal_test (ppl_const_Pointset_Powerset_-BD_Shape_int64_t_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t y)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_increment (ppl_Pointset_Powerset_BD_-Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_decrement (ppl_Pointset_Powerset_BD_-Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_int64_t_iterator_t ps, ppl_const_BD_Shape_int64_t_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int64_t_iterator (ppl_const_Pointset_Powerset_BD_-Shape_int64_t_iterator_t psit)

10.67.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

10.67.2 Friends And Related Function Documentation

10.67.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int64_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *psit*) [related]

10.67.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t * *pit*) [related]

10.67.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_iterator_from_-iterator (ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *y*) [related]

10.67.2.4 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_begin (ppl_Pointset_Powerset_-BD_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t *psit*) [related]

10.67.2.5 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t *psit*) [related]

10.67.2.6 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_dereference (ppl_const_-Pointset_Powerset_BD_Shape_int64_t_iterator_t *ps*, ppl_const_BD_Shape_int64_t_t * *d*) [related]

10.67.2.7 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t *psit*) [related]

10.67.2.8 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *y*) [related]

10.67.2.9 int ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.68 ppl_Pointset_Powerset_BD_Shape_int64_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Pointset_Powerset_BD_Shape_int64_t (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Pointset_Powerset_BD_Shape_int64_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗pph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_empty (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_contains_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_strictly_contains_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_geometrically_covers_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_geometrically_equals_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_equals_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_intersection_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_difference_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_constrains (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_image (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_size (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_int64_t_t ps, ppl_const_BD_Shape_int64_t_t d)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_int64_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_int64_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)

- int ppl_Pointset_Powerset_BD_Shape_int64_t_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_int64_t_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t y, int disjuncts)

10.68.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_int64_t_tag.

10.68.2 Friends And Related Function Documentation

10.68.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_BD_Shape_int64_t (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.68.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_BD_Shape_int64_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.68.2.4 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.68.2.5 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int64_t_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.68.2.6 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Pointset_Powerset_-BD_Shape_int64_t (ppl_Pointset_Powerset_BD_Shape_int64_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.7 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_Pointset_Powerset_BD_-Shape_int64_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int64_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.68.2.8 int ppl_new_Pointset_Powerset_BD_Shape_int64_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.68.2.9 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.68.2.10 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.68.2.11 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.68.2.12 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.68.2.13 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_disjunct (ppl_Pointset_-Powerset_BD_Shape_int64_t_t *ps*, ppl_const_BD_Shape_int64_t_t *d*) [related]

10.68.2.14 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.68.2.15 int ppl_Pointset_Powerset_BD_Shape_int64_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.68.2.16 int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.68.2.17 int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_image (ppl_Pointset_Powerset_-BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.68.2.18 int ppl_Pointset_Powerset_BD_Shape_int64_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.68.2.19 int ppl_Pointset_Powerset_BD_Shape_int64_t_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*, int *disjuncts*) [related]

10.68.2.20 int ppl_Pointset_Powerset_BD_Shape_int64_t_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*, int *disjuncts*) [related]

10.68.2.21 int ppl_Pointset_Powerset_BD_Shape_int64_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.22 int ppl_Pointset_Powerset_BD_Shape_int64_t_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.23 int ppl_Pointset_Powerset_BD_Shape_int64_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.68.2.24 int ppl_Pointset_Powerset_BD_Shape_int64_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.68.2.25 int ppl_Pointset_Powerset_BD_Shape_int64_t_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.68.2.26 int ppl_Pointset_Powerset_BD_Shape_int64_t_bounds_from_below (ppl_const_-Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.68.2.27 int ppl_Pointset_Powerset_BD_Shape_int64_t_concatenate_assign (ppl_Pointset_-Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.28 int ppl_Pointset_Powerset_BD_Shape_int64_t_constrains (ppl_-Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.68.2.29 int ppl_Pointset_Powerset_BD_Shape_int64_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.30 int ppl_Pointset_Powerset_BD_Shape_int64_t_contains_Pointset_Powerset_-BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.31 int ppl_Pointset_Powerset_BD_Shape_int64_t_difference_assign (ppl_Pointset_-Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.32 int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_disjunct (ppl_Pointset_Powerset_-BD_Shape_int64_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_int64_t_iterator_t *it*) [related]

10.68.2.33 int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_disjuncts (ppl_Pointset_-Powerset_BD_Shape_int64_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int64_-t_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_iterator_t *last*) [related]

10.68.2.34 int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.68.2.35 int ppl_Pointset_Powerset_BD_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.68.2.36 int ppl_Pointset_Powerset_BD_Shape_int64_t_equals_Pointset_Powerset_-BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.37 int ppl_Pointset_Powerset_BD_Shape_int64_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.68.2.38 int ppl_Pointset_Powerset_BD_Shape_int64_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ps*, size_t ∗ *sz*) [related]

10.68.2.39 int ppl_Pointset_Powerset_BD_Shape_int64_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.68.2.40 int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.68.2.41 int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.68.2.42 int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.68.2.43 int ppl_Pointset_Powerset_BD_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.68.2.44 int ppl_Pointset_Powerset_BD_Shape_int64_t_geometrically_covers_Pointset_-Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.45 int ppl_Pointset_Powerset_BD_Shape_int64_t_geometrically_equals_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.46 int ppl_Pointset_Powerset_BD_Shape_int64_t_intersection_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.47 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.48 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.49 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.50 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_empty (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.51 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.52 int ppl_Pointset_Powerset_BD_Shape_int64_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.53 int ppl_Pointset_Powerset_BD_Shape_int64_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.68.2.54 int ppl_Pointset_Powerset_BD_Shape_int64_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.68.2.55 int ppl_Pointset_Powerset_BD_Shape_int64_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.68.2.56 int ppl_Pointset_Powerset_BD_Shape_int64_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.68.2.57 int ppl_Pointset_Powerset_BD_Shape_int64_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.68.2.58 int ppl_Pointset_Powerset_BD_Shape_int64_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.59 int ppl_Pointset_Powerset_BD_Shape_int64_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.60 int ppl_Pointset_Powerset_BD_Shape_int64_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.61 int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.68.2.62 int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.68.2.63 int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.68.2.64 int ppl_Pointset_Powerset_BD_Shape_int64_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.68.2.65 int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.68.2.66 int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.68.2.67 int ppl_Pointset_Powerset_BD_Shape_int64_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.68.2.68 int ppl_Pointset_Powerset_BD_Shape_int64_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.68.2.69 int ppl_Pointset_Powerset_BD_Shape_int64_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.68.2.70 int ppl_Pointset_Powerset_BD_Shape_int64_t_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.71 int ppl_Pointset_Powerset_BD_Shape_int64_t_size (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.68.2.72 int ppl_Pointset_Powerset_BD_Shape_int64_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.68.2.73 int ppl_Pointset_Powerset_BD_Shape_int64_t_strictly_contains_Pointset_Powerset_BD_Shape_int64_t (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.74 int ppl_Pointset_Powerset_BD_Shape_int64_t_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.75 int ppl_Pointset_Powerset_BD_Shape_int64_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*) [related]

10.68.2.76 int ppl_Pointset_Powerset_BD_Shape_int64_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.68.2.77 int ppl_Pointset_Powerset_BD_Shape_int64_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.68.2.78 int ppl_Pointset_Powerset_BD_Shape_int64_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.68.2.79 int ppl_Pointset_Powerset_BD_Shape_int64_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

10.68.2.80 int ppl_Pointset_Powerset_BD_Shape_int64_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int64_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.69 ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t ps, ppl_const_BD_Shape_int8_t_t *d)

- int ppl_delete_Pointset_Powerset_BD_Shape_int8_t_const_iterator (ppl_const_Pointset_-Powerset_BD_Shape_int8_t_const_iterator_t psit)

10.69.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

10.69.2 Friends And Related Function Documentation

10.69.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int8_t_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *psit*) [related]

10.69.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_const_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t ∗ *pit*) [related]

10.69.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *y*) [related]

10.69.2.4 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int8_t_const_iterator_t *psit*) [related]

10.69.2.5 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *psit*) [related]

10.69.2.6 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *ps*, ppl_const_BD_Shape_int8_t_t ∗ *d*) [related]

10.69.2.7 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_BD_-Shape_int8_t_const_iterator_t *psit*) [related]

10.69.2.8 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *y*) [related]

10.69.2.9 int ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int8_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.70 ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_begin (ppl_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t ps, ppl_const_BD_Shape_int8_t_t ∗d)
- int ppl_delete_Pointset_Powerset_BD_Shape_int8_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t psit)

10.70.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

10.70.2 Friends And Related Function Documentation

10.70.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int8_t_iterator (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *psit*) [related]

10.70.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t ∗ *pit*) [related]

10.70.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *y*) [related]

10.70.2.4 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_begin (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t *psit*) [related]

10.70.2.5 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t *psit*) [related]

10.70.2.6 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *ps*, ppl_const_BD_Shape_int8_t_t ∗ *d*) [related]

10.70.2.7 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_end (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t *psit*) [related]

10.70.2.8 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *y*) [related]

10.70.2.9 int ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_increment (ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.71 ppl_Pointset_Powerset_BD_Shape_int8_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Pointset_Powerset_BD_Shape_int8_t (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Pointset_Powerset_BD_Shape_int8_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_BD_Shape_int8_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int8_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_empty (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)

- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_contains_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_strictly_contains_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_geometrically_covers_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_geometrically_equals_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_equals_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_OK (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Constraint_t c)

- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_intersection_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_difference_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_constrains (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_image (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_size (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_add_disjunct (ppl_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_const_BD_Shape_int8_t_t d)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_int8_t_t ps, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_int8_t_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t x, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t y, int disjuncts)

10.71.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_int8_t_tag.

10.71.2 Friends And Related Function Documentation

10.71.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_-BD_Shape_int8_t_t *ph*) [related]

10.71.2.2 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_BD_Shape_int8_t (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.71.2.3 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_BD_Shape_int8_-t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.71.2.4 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.71.2.5 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.71.2.6 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Pointset_Powerset_-BD_Shape_int8_t (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.7 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_Pointset_Powerset_BD_-Shape_int8_t_with_complexity (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.71.2.8 int ppl_new_Pointset_Powerset_BD_Shape_int8_t_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.71.2.9 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_congruence (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.71.2.10 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_congruences (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.71.2.11 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_constraint (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.71.2.12 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_constraints (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.71.2.13 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_disjunct (ppl_Pointset_-Powerset_BD_Shape_int8_t_t *ps*, ppl_const_BD_Shape_int8_t_t *d*) [related]

10.71.2.14 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.71.2.15 int ppl_Pointset_Powerset_BD_Shape_int8_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.71.2.16 int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.71.2.17 int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_image (ppl_Pointset_Powerset_-BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.71.2.18 int ppl_Pointset_Powerset_BD_Shape_int8_t_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.71.2.19 int ppl_Pointset_Powerset_BD_Shape_int8_t_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*, int *disjuncts*) [related]

10.71.2.20 int ppl_Pointset_Powerset_BD_Shape_int8_t_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*, int *disjuncts*) [related]

10.71.2.21 int ppl_Pointset_Powerset_BD_Shape_int8_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.22 int ppl_Pointset_Powerset_BD_Shape_int8_t_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.23 int ppl_Pointset_Powerset_BD_Shape_int8_t_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.71.2.24 int ppl_Pointset_Powerset_BD_Shape_int8_t_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.71.2.25 int ppl_Pointset_Powerset_BD_Shape_int8_t_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.71.2.26 int ppl_Pointset_Powerset_BD_Shape_int8_t_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.71.2.27 int ppl_Pointset_Powerset_BD_Shape_int8_t_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.28 int ppl_Pointset_Powerset_BD_Shape_int8_t_constrains (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.71.2.29 int ppl_Pointset_Powerset_BD_Shape_int8_t_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.30 int ppl_Pointset_Powerset_BD_Shape_int8_t_contains_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.31 int ppl_Pointset_Powerset_BD_Shape_int8_t_difference_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.32 int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_int8_t_iterator_t *it*) [related]

10.71.2.33 int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_iterator_t *last*) [related]

10.71.2.34 int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.71.2.35 int ppl_Pointset_Powerset_BD_Shape_int8_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.71.2.36 int ppl_Pointset_Powerset_BD_Shape_int8_t_equals_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.37 int ppl_Pointset_Powerset_BD_Shape_int8_t_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.71.2.38 int ppl_Pointset_Powerset_BD_Shape_int8_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.71.2.39 int ppl_Pointset_Powerset_BD_Shape_int8_t_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.71.2.40 int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.71.2.41 int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.71.2.42 int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.71.2.43 int ppl_Pointset_Powerset_BD_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.71.2.44 int ppl_Pointset_Powerset_BD_Shape_int8_t_geometrically_covers_Pointset_-Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.45 int ppl_Pointset_Powerset_BD_Shape_int8_t_geometrically_equals_Pointset_-Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.46 int ppl_Pointset_Powerset_BD_Shape_int8_t_intersection_assign (ppl_Pointset_-Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.47 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.48 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.49 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_disjoint_from_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.50 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_empty (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.51 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.52 int ppl_Pointset_Powerset_BD_Shape_int8_t_is_universe (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.53 int ppl_Pointset_Powerset_BD_Shape_int8_t_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.71.2.54 int ppl_Pointset_Powerset_BD_Shape_int8_t_maximize (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.71.2.55 int ppl_Pointset_Powerset_BD_Shape_int8_t_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.71.2.56 int ppl_Pointset_Powerset_BD_Shape_int8_t_minimize (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.71.2.57 int ppl_Pointset_Powerset_BD_Shape_int8_t_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.71.2.58 int ppl_Pointset_Powerset_BD_Shape_int8_t_OK (ppl_const_Pointset_Powerset_BD_-Shape_int8_t_t *ph*) [related]

10.71.2.59 int ppl_Pointset_Powerset_BD_Shape_int8_t_omega_reduce (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.60 int ppl_Pointset_Powerset_BD_Shape_int8_t_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.61 int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.71.2.62 int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.71.2.63 int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.71.2.64 int ppl_Pointset_Powerset_BD_Shape_int8_t_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.71.2.65 int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.71.2.66 int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.71.2.67 int ppl_Pointset_Powerset_BD_Shape_int8_t_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.71.2.68 int ppl_Pointset_Powerset_BD_Shape_int8_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.71.2.69 int ppl_Pointset_Powerset_BD_Shape_int8_t_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.71.2.70 int ppl_Pointset_Powerset_BD_Shape_int8_t_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.71 int ppl_Pointset_Powerset_BD_Shape_int8_t_size (ppl_const_Pointset_Powerset_BD_-Shape_int8_t_t *ps*, size_t ∗ *sz*) [related]

10.71.2.72 int ppl_Pointset_Powerset_BD_Shape_int8_t_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.71.2.73 int ppl_Pointset_Powerset_BD_Shape_int8_t_strictly_contains_Pointset_Powerset_BD_Shape_int8_t (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.74 int ppl_Pointset_Powerset_BD_Shape_int8_t_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.75 int ppl_Pointset_Powerset_BD_Shape_int8_t_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*) [related]

10.71.2.76 int ppl_Pointset_Powerset_BD_Shape_int8_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.71.2.77 int ppl_Pointset_Powerset_BD_Shape_int8_t_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.71.2.78 int ppl_Pointset_Powerset_BD_Shape_int8_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.71.2.79 int ppl_Pointset_Powerset_BD_Shape_int8_t_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

10.71.2.80 int ppl_Pointset_Powerset_BD_Shape_int8_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_BD_Shape_int8_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.72 ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_long_double_const_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t ps, ppl_const_BD_Shape_long_double_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_long_double_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t psit)

10.72.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_long_double_tag.

10.72.2 Friends And Related Function Documentation

10.72.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_long_double_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *psit*) [related]

10.72.2.2 int ppl_new_Pointset_Powerset_BD_Shape_long_double_const_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t * *pit*) [related]

10.72.2.3 int ppl_new_Pointset_Powerset_BD_Shape_long_double_const_iterator_from_const_-iterator (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *y*) [related]

10.72.2.4 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_-begin (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *psit*) [related]

10.72.2.5 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *psit*) [related]

10.72.2.6 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *ps*, ppl_const_BD_Shape_long_double_t * *d*) [related]

10.72.2.7 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *psit*) [related]

10.72.2.8 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *y*) [related]

10.72.2.9 int ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_long_double_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.73 ppl_Pointset_Powerset_BD_Shape_long_double_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_long_double_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_begin (ppl_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_end (ppl_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_increment (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t ps, ppl_const_BD_Shape_long_double_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_long_double_iterator (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t psit)

10.73.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_long_double_tag.

10.73.2 Friends And Related Function Documentation

10.73.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_long_double_iterator (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *psit*) [related]

10.73.2.2 int ppl_new_Pointset_Powerset_BD_Shape_long_double_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t * *pit*) [related]

10.73.2.3 int ppl_new_Pointset_Powerset_BD_Shape_long_double_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *y*) [related]

10.73.2.4 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_begin (ppl_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *psit*) [related]

10.73.2.5 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *psit*) [related]

10.73.2.6 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *ps*, ppl_const_BD_Shape_long_double_t * *d*) [related]

10.73.2.7 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_end (ppl_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *psit*) [related]

10.73.2.8 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *y*) [related]

10.73.2.9 int ppl_Pointset_Powerset_BD_Shape_long_double_iterator_increment (ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.74 ppl_Pointset_Powerset_BD_Shape_long_double_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Pointset_Powerset_BD_Shape_long_double (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_BD_Shape_long_double (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Pointset_Powerset_BD_Shape_long_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_BD_Shape_long_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_long_double_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_long_double_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_empty (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_universe (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_omega_reduce (ppl_Pointset_Powerset_BD_Shape_long_double_t ph)

- int ppl_Pointset_Powerset_BD_Shape_long_double_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_long_double_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_long_double_maximize (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_long_double_minimize (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_long_double_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_long_double_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_long_double_contains_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_strictly_contains_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_is_disjoint_from_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_geometrically_covers_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_geometrically_equals_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_equals_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_OK (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_constraint (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_congruence (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_constraints (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_congruences (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_BD_Shape_long_double_intersection_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_difference_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_constrains (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_long_double_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_long_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_long_double_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_Pointset_Powerset_BD_Shape_long_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_long_double_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_long_double_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_long_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_long_double_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_long_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_long_double_size (ppl_const_Pointset_Powerset_BD_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_BD_Shape_long_double_add_disjunct (ppl_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_const_BD_Shape_long_double_t d)
- int ppl_Pointset_Powerset_BD_Shape_long_double_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_long_double_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_long_double_t ps, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_long_double_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y)
- int ppl_Pointset_Powerset_BD_Shape_long_double_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_long_double_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t x, ppl_const_Pointset_Powerset_BD_Shape_long_double_t y, int disjuncts)

10.74.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_long_double_tag.

10.74.2 Friends And Related Function Documentation

10.74.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) `[related]`

10.74.2.2 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_BD_Shape_-long_double (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.74.2.3 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_BD_Shape_long_-double_with_complexity (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.74.2.4 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Congruence_-System (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.74.2.5 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Constraint_-System (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.74.2.6 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Pointset_Powerset_-BD_Shape_long_double (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.7 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_Pointset_Powerset_BD_-Shape_long_double_with_complexity (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.74.2.8 int ppl_new_Pointset_Powerset_BD_Shape_long_double_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.74.2.9 int ppl_Pointset_Powerset_BD_Shape_long_double_add_congruence (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.74.2.10 int ppl_Pointset_Powerset_BD_Shape_long_double_add_congruences (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.74.2.11 int ppl_Pointset_Powerset_BD_Shape_long_double_add_constraint (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.74.2.12 int ppl_Pointset_Powerset_BD_Shape_long_double_add_constraints (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.74.2.13 int ppl_Pointset_Powerset_BD_Shape_long_double_add_disjunct (ppl_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_const_BD_Shape_long_double_t *d*) [related]

10.74.2.14 int ppl_Pointset_Powerset_BD_Shape_long_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.74.2.15 int ppl_Pointset_Powerset_BD_Shape_long_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.74.2.16 int ppl_Pointset_Powerset_BD_Shape_long_double_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type * *m*) [related]

10.74.2.17 int ppl_Pointset_Powerset_BD_Shape_long_double_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.74.2.18 int ppl_Pointset_Powerset_BD_Shape_long_double_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.74.2.19 int ppl_Pointset_Powerset_BD_Shape_long_double_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*, int *disjuncts*) [related]

10.74.2.20 int ppl_Pointset_Powerset_BD_Shape_long_double_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*, int *disjuncts*) [related]

10.74.2.21 int ppl_Pointset_Powerset_BD_Shape_long_double_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.22 int ppl_Pointset_Powerset_BD_Shape_long_double_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.23 int ppl_Pointset_Powerset_BD_Shape_long_double_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.74.2.24 int ppl_Pointset_Powerset_BD_Shape_long_double_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.74.2.25 int ppl_Pointset_Powerset_BD_Shape_long_double_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.74.2.26 int ppl_Pointset_Powerset_BD_Shape_long_double_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.74.2.27 int ppl_Pointset_Powerset_BD_Shape_long_double_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.28 int ppl_Pointset_Powerset_BD_Shape_long_double_constrains (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.74.2.29 int ppl_Pointset_Powerset_BD_Shape_long_double_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.30 int ppl_Pointset_Powerset_BD_Shape_long_double_contains_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.31 int ppl_Pointset_Powerset_BD_Shape_long_double_difference_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.32 int ppl_Pointset_Powerset_BD_Shape_long_double_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_long_double_iterator_t *it*) [related]

10.74.2.33 int ppl_Pointset_Powerset_BD_Shape_long_double_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_long_double_t *ps*, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_long_double_iterator_t *last*) [related]

10.74.2.34 int ppl_Pointset_Powerset_BD_Shape_long_double_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, int *complexity*) `[related]`

10.74.2.35 int ppl_Pointset_Powerset_BD_Shape_long_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) `[related]`

10.74.2.36 int ppl_Pointset_Powerset_BD_Shape_long_double_equals_Pointset_Powerset_BD_-Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) `[related]`

10.74.2.37 int ppl_Pointset_Powerset_BD_Shape_long_double_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.74.2.38 int ppl_Pointset_Powerset_BD_Shape_long_double_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ps*, size_t * *sz*) `[related]`

10.74.2.39 int ppl_Pointset_Powerset_BD_Shape_long_double_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.74.2.40 int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.74.2.41 int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.74.2.42 int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.74.2.43 int ppl_Pointset_Powerset_BD_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.74.2.44 int ppl_Pointset_Powerset_BD_Shape_long_double_geometrically_covers_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.45 int ppl_Pointset_Powerset_BD_Shape_long_double_geometrically_equals_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.46 int ppl_Pointset_Powerset_BD_Shape_long_double_intersection_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.47 int ppl_Pointset_Powerset_BD_Shape_long_double_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.48 int ppl_Pointset_Powerset_BD_Shape_long_double_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.49 int ppl_Pointset_Powerset_BD_Shape_long_double_is_disjoint_from_Pointset_-Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_-long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.50 int ppl_Pointset_Powerset_BD_Shape_long_double_is_empty (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.51 int ppl_Pointset_Powerset_BD_Shape_long_double_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.52 int ppl_Pointset_Powerset_BD_Shape_long_double_is_universe (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.53 int ppl_Pointset_Powerset_BD_Shape_long_double_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.74.2.54 int ppl_Pointset_Powerset_BD_Shape_long_double_maximize (ppl_const_Pointset_-Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.74.2.55 int ppl_Pointset_Powerset_BD_Shape_long_double_maximize_with_point (ppl_const_-Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.74.2.56 int ppl_Pointset_Powerset_BD_Shape_long_double_minimize (ppl_const_Pointset_-Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.74.2.57 int ppl_Pointset_Powerset_BD_Shape_long_double_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.74.2.58 int ppl_Pointset_Powerset_BD_Shape_long_double_OK (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.59 int ppl_Pointset_Powerset_BD_Shape_long_double_omega_reduce (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.60 int ppl_Pointset_Powerset_BD_Shape_long_double_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.61 int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.74.2.62 int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.74.2.63 int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.74.2.64 int ppl_Pointset_Powerset_BD_Shape_long_double_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.74.2.65 int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.74.2.66 int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.74.2.67 int ppl_Pointset_Powerset_BD_Shape_long_double_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.74.2.68 int ppl_Pointset_Powerset_BD_Shape_long_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.74.2.69 int ppl_Pointset_Powerset_BD_Shape_long_double_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.74.2.70 int ppl_Pointset_Powerset_BD_Shape_long_double_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.71 int ppl_Pointset_Powerset_BD_Shape_long_double_size (ppl_-const_Pointset_Powerset_BD_Shape_long_double_t *ps*, size_t ∗ *sz*) [related]

10.74.2.72 int ppl_Pointset_Powerset_BD_Shape_long_double_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.74.2.73 int ppl_Pointset_Powerset_BD_Shape_long_double_strictly_contains_Pointset_Powerset_BD_Shape_long_double (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.74 int ppl_Pointset_Powerset_BD_Shape_long_double_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.75 int ppl_Pointset_Powerset_BD_Shape_long_double_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*) [related]

10.74.2.76 int ppl_Pointset_Powerset_BD_Shape_long_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.74.2.77 int ppl_Pointset_Powerset_BD_Shape_long_double_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.74.2.78 int ppl_Pointset_Powerset_BD_Shape_long_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.74.2.79 int ppl_Pointset_Powerset_BD_Shape_long_double_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

10.74.2.80 int ppl_Pointset_Powerset_BD_Shape_long_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_BD_Shape_long_double_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.75 ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_mpq_-class_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_const_iterator (ppl_Pointset_Powerset_-BD_Shape_mpq_class_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t ∗px, ppl_const_Pointset_Powerset_-BD_Shape_mpq_class_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_begin (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpq_class_const_-iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_end (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpq_class_const_-iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_equal_test (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_-mpq_class_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_increment (ppl_Pointset_-Powerset_BD_Shape_mpq_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_decrement (ppl_Pointset_-Powerset_BD_Shape_mpq_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_dereference (ppl_const_-Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t ps, ppl_const_BD_Shape_mpq_class_t ∗d)
- int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class_const_iterator (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_const_iterator_t psit)

10.75.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_mpq_-class_tag.

10.75.2 Friends And Related Function Documentation

10.75.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *psit*) [related]

10.75.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_const_iterator (ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t * *pit*) [related]

10.75.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_from_const_-iterator (ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *y*) [related]

10.75.2.4 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_-begin (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *psit*) [related]

10.75.2.5 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *psit*) [related]

10.75.2.6 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *ps*, ppl_const_BD_Shape_mpq_class_t * *d*) [related]

10.75.2.7 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_-end (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *psit*) [related]

10.75.2.8 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *y*) [related]

10.75.2.9 int ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpq_class_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.76 ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_iterator (ppl_Pointset_Powerset_BD_-Shape_mpq_class_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_iterator_from_iterator (ppl_Pointset_-Powerset_BD_Shape_mpq_class_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_mpq_-class_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_begin (ppl_Pointset_Powerset_BD_-Shape_mpq_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_end (ppl_Pointset_Powerset_BD_-Shape_mpq_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_equal_test (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_-class_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_increment (ppl_Pointset_Powerset_-BD_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_decrement (ppl_Pointset_Powerset_-BD_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_dereference (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_iterator_t ps, ppl_const_BD_Shape_mpq_class_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class_iterator (ppl_const_Pointset_Powerset_-BD_Shape_mpq_class_iterator_t psit)

10.76.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_mpq_class_tag.

10.76.2 Friends And Related Function Documentation

10.76.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *psit*) `[related]`

10.76.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_iterator (ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t * *pit*) `[related]`

10.76.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *y*) [related]

10.76.2.4 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_begin (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_BD_-Shape_mpq_class_iterator_t *psit*) [related]

10.76.2.5 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *psit*) [related]

10.76.2.6 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *ps*, ppl_const_BD_Shape_mpq_class_t * *d*) [related]

10.76.2.7 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_end (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_BD_-Shape_mpq_class_iterator_t *psit*) [related]

10.76.2.8 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *y*) [related]

10.76.2.9 int ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.77 ppl_Pointset_Powerset_BD_Shape_mpq_class_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Pointset_Powerset_BD_Shape_mpq_class (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_BD_Shape_mpq_class (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Pointset_Powerset_BD_Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_BD_Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_empty (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_universe (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_omega_reduce (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph)

- int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_maximize (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_minimize (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_contains_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_strictly_contains_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_disjoint_from_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_geometrically_covers_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_geometrically_equals_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_equals_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_OK (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_constraint (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_congruence (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_constraints (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_congruences (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_BD_Shape_mpq_class_intersection_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_difference_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_constrains (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_BD_Shape_mpq_class_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_size (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_disjunct (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ps, ppl_const_BD_Shape_mpq_class_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ps, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t cit, ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_mpq_class_t ps, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t first, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_mpq_class_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t y, int disjuncts)

10.77.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_mpq_class_tag.

10.77.2 Friends And Related Function Documentation

10.77.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_BD_-Shape_mpq_class (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_BD_Shape_mpq_-class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.77.2.4 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Congruence_-System (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.77.2.5 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.77.2.6 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Pointset_Powerset_-BD_Shape_mpq_class (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.7 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_Pointset_Powerset_BD_-Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.77.2.8 int ppl_new_Pointset_Powerset_BD_Shape_mpq_class_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.77.2.9 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_congruence (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.77.2.10 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_congruences (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.77.2.11 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_constraint (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.77.2.12 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_constraints (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.77.2.13 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_disjunct (ppl_Pointset_-Powerset_BD_Shape_mpq_class_t *ps*, ppl_const_BD_Shape_mpq_class_t *d*) [related]

10.77.2.14 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.77.2.15 int ppl_Pointset_Powerset_BD_Shape_mpq_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.77.2.16 int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.77.2.17 int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.77.2.18 int ppl_Pointset_Powerset_BD_Shape_mpq_class_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.77.2.19 int ppl_Pointset_Powerset_BD_Shape_mpq_class_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*, int *disjuncts*) [related]

10.77.2.20 int ppl_Pointset_Powerset_BD_Shape_mpq_class_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*, int *disjuncts*) [related]

10.77.2.21 int ppl_Pointset_Powerset_BD_Shape_mpq_class_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.22 int ppl_Pointset_Powerset_BD_Shape_mpq_class_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.23 int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.77.2.24 int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.77.2.25 int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.77.2.26 int ppl_Pointset_Powerset_BD_Shape_mpq_class_bounds_from_below (ppl_const_-Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.77.2.27 int ppl_Pointset_Powerset_BD_Shape_mpq_class_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpq_class_t *y*) [related]

10.77.2.28 int ppl_Pointset_Powerset_BD_Shape_mpq_class_constrains (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.77.2.29 int ppl_Pointset_Powerset_BD_Shape_mpq_class_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.30 int ppl_Pointset_Powerset_BD_Shape_mpq_class_contains_Pointset_Powerset_-BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.31 int ppl_Pointset_Powerset_BD_Shape_mpq_class_difference_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpq_class_t *y*) [related]

10.77.2.32 int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_-const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *it*) [related]

10.77.2.33 int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, ppl_-const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_iterator_t *last*) [related]

10.77.2.34 int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, int *complexity*) `[related]`

10.77.2.35 int ppl_Pointset_Powerset_BD_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) `[related]`

10.77.2.36 int ppl_Pointset_Powerset_BD_Shape_mpq_class_equals_Pointset_Powerset_-BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) `[related]`

10.77.2.37 int ppl_Pointset_Powerset_BD_Shape_mpq_class_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.77.2.38 int ppl_Pointset_Powerset_BD_Shape_mpq_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, size_t ∗ *sz*) `[related]`

10.77.2.39 int ppl_Pointset_Powerset_BD_Shape_mpq_class_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.77.2.40 int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.77.2.41 int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.77.2.42 int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.77.2.43 int ppl_Pointset_Powerset_BD_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.77.2.44 int ppl_Pointset_Powerset_BD_Shape_mpq_class_geometrically_covers_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.45 int ppl_Pointset_Powerset_BD_Shape_mpq_class_geometrically_equals_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.46 int ppl_Pointset_Powerset_BD_Shape_mpq_class_intersection_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.47 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.48 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.49 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_disjoint_from_Pointset_-Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_-mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.50 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_empty (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.51 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.52 int ppl_Pointset_Powerset_BD_Shape_mpq_class_is_universe (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.53 int ppl_Pointset_Powerset_BD_Shape_mpq_class_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.77.2.54 int ppl_Pointset_Powerset_BD_Shape_mpq_class_maximize (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.77.2.55 int ppl_Pointset_Powerset_BD_Shape_mpq_class_maximize_with_point (ppl_const_-Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.77.2.56 int ppl_Pointset_Powerset_BD_Shape_mpq_class_minimize (ppl_const_Pointset_-Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.77.2.57 int ppl_Pointset_Powerset_BD_Shape_mpq_class_minimize_with_point (ppl_const_-Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.77.2.58 int ppl_Pointset_Powerset_BD_Shape_mpq_class_OK (ppl_const_Pointset_Powerset_-BD_Shape_mpq_class_t *ph*) [related]

10.77.2.59 int ppl_Pointset_Powerset_BD_Shape_mpq_class_omega_reduce (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.60 int ppl_Pointset_Powerset_BD_Shape_mpq_class_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) [related]

10.77.2.61 int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.77.2.62 int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.77.2.63 int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.77.2.64 int ppl_Pointset_Powerset_BD_Shape_mpq_class_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.77.2.65 int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.77.2.66 int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.77.2.67 int ppl_Pointset_Powerset_BD_Shape_mpq_class_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.77.2.68 int ppl_Pointset_Powerset_BD_Shape_mpq_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.77.2.69 int ppl_Pointset_Powerset_BD_Shape_mpq_class_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.77.2.70 int ppl_Pointset_Powerset_BD_Shape_mpq_class_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) [related]

10.77.2.71 int ppl_Pointset_Powerset_BD_Shape_mpq_class_size (ppl_-const_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, size_t * *sz*) [related]

10.77.2.72 int ppl_Pointset_Powerset_BD_Shape_mpq_class_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type * *m*) [related]

10.77.2.73 int ppl_Pointset_Powerset_BD_Shape_mpq_class_strictly_contains_Pointset_Powerset_BD_Shape_mpq_class (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) `[related]`

10.77.2.74 int ppl_Pointset_Powerset_BD_Shape_mpq_class_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) `[related]`

10.77.2.75 int ppl_Pointset_Powerset_BD_Shape_mpq_class_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*) `[related]`

10.77.2.76 int ppl_Pointset_Powerset_BD_Shape_mpq_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *ps*, size_t * *sz*) `[related]`

10.77.2.77 int ppl_Pointset_Powerset_BD_Shape_mpq_class_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) `[related]`

10.77.2.78 int ppl_Pointset_Powerset_BD_Shape_mpq_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.77.2.79 int ppl_Pointset_Powerset_BD_Shape_mpq_class_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) `[related]`

10.77.2.80 int ppl_Pointset_Powerset_BD_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpq_class_t *y*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.78 ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_const_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t ∗px, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t ps, ppl_const_BD_Shape_mpz_class_t ∗d)
- int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t psit)

10.78.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

10.78.2 Friends And Related Function Documentation

10.78.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class_const_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *psit*) [related]

10.78.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_const_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t * *pit*) [related]

10.78.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_from_const_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *y*) [related]

10.78.2.4 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_begin (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *psit*) [related]

10.78.2.5 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *psit*) [related]

10.78.2.6 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *ps*, ppl_const_BD_Shape_mpz_class_t * *d*) [related]

10.78.2.7 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_end (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *psit*) [related]

10.78.2.8 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *y*) [related]

10.78.2.9 int ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpz_class_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.79 ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *pit)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *px, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_begin (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_end (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ps, ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t ps, ppl_const_BD_Shape_mpz_class_t *d)
- int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t psit)

10.79.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

10.79.2 Friends And Related Function Documentation

10.79.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class_iterator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *psit*) `[related]`

10.79.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t * *pit*) `[related]`

10.79.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_iterator_from_iterator (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t * *px*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *y*) [related]

10.79.2.4 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_begin (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_BD_-Shape_mpz_class_iterator_t *psit*) [related]

10.79.2.5 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_decrement (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *psit*) [related]

10.79.2.6 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_dereference (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *ps*, ppl_const_BD_Shape_mpz_class_t * *d*) [related]

10.79.2.7 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_end (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_BD_-Shape_mpz_class_iterator_t *psit*) [related]

10.79.2.8 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_equal_test (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *y*) [related]

10.79.2.9 int ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_increment (ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.80 ppl_Pointset_Powerset_BD_Shape_mpz_class_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Pointset_Powerset_BD_Shape_mpz_class (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Pointset_Powerset_BD_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_empty (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_universe (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_omega_reduce (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph)

- int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounds_from_above (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounds_from_below (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_maximize (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_minimize (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_contains_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_strictly_contains_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_disjoint_from_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_geometrically_covers_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_geometrically_equals_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_equals_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_OK (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_constraint (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_congruence (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_constraints (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_congruences (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_BD_Shape_mpz_class_intersection_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_difference_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_simplify_using_context_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_constrains (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_BD_Shape_mpz_class_expand_space_dimension (ppl_Pointset_-Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_fold_space_dimensions (ppl_Pointset_-Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_map_space_dimensions (ppl_Pointset_-Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_some_non_integer_points (ppl_Pointset_-Powerset_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_external_memory_in_bytes (ppl_const_-Pointset_Powerset_BD_Shape_mpz_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_total_memory_in_bytes (ppl_const_Pointset_-Powerset_BD_Shape_mpz_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_size (ppl_const_Pointset_Powerset_BD_Shape_-mpz_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_disjunct (ppl_Pointset_Powerset_BD_-Shape_mpz_class_t ps, ppl_const_BD_Shape_mpz_class_t d)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_disjunct (ppl_Pointset_Powerset_BD_-Shape_mpz_class_t ps, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t cit, ppl_-Pointset_Powerset_BD_Shape_mpz_class_iterator_t it)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_disjuncts (ppl_Pointset_Powerset_BD_-Shape_mpz_class_t ps, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t first, ppl_-const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t last)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_BHZ03_H79_BHMZ05_widening_assign (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_-class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_BHZ03_H79_H79_widening_assign (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_-class_t y)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_BGP99_BHMZ05_extrapolation_assign (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_-class_t y, int disjuncts)
- int ppl_Pointset_Powerset_BD_Shape_mpz_class_BGP99_H79_extrapolation_assign (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_BD_Shape_mpz_-class_t y, int disjuncts)

10.80.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_BD_Shape_mpz_class_tag.

10.80.2 Friends And Related Function Documentation

10.80.2.1 int ppl_delete_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *ph*) `[related]`

10.80.2.2 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_BD_Shape_mpz_class (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.3 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_BD_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.80.2.4 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Congruence_System (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.80.2.5 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Constraint_System (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.80.2.6 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Pointset_Powerset_BD_Shape_mpz_class (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.7 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_Pointset_Powerset_BD_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.80.2.8 int ppl_new_Pointset_Powerset_BD_Shape_mpz_class_from_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpz_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.80.2.9 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_congruence (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.80.2.10 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_congruences (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.80.2.11 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_constraint (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.80.2.12 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_constraints (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.80.2.13 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_disjunct (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_const_BD_Shape_mpz_class_t *d*) [related]

10.80.2.14 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.80.2.15 int ppl_Pointset_Powerset_BD_Shape_mpz_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.80.2.16 int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.80.2.17 int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.80.2.18 int ppl_Pointset_Powerset_BD_Shape_mpz_class_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.80.2.19 int ppl_Pointset_Powerset_BD_Shape_mpz_class_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*, int *disjuncts*) [related]

10.80.2.20 int ppl_Pointset_Powerset_BD_Shape_mpz_class_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*, int *disjuncts*) [related]

10.80.2.21 int ppl_Pointset_Powerset_BD_Shape_mpz_class_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.22 int ppl_Pointset_Powerset_BD_Shape_mpz_class_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.23 int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounded_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.80.2.24 int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounded_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.80.2.25 int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounds_from_above (ppl_const_-Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.80.2.26 int ppl_Pointset_Powerset_BD_Shape_mpz_class_bounds_from_below (ppl_const_-Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.80.2.27 int ppl_Pointset_Powerset_BD_Shape_mpz_class_concatenate_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *y*) [related]

10.80.2.28 int ppl_Pointset_Powerset_BD_Shape_mpz_class_constrains (ppl_-Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.80.2.29 int ppl_Pointset_Powerset_BD_Shape_mpz_class_contains_integer_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.30 int ppl_Pointset_Powerset_BD_Shape_mpz_class_contains_Pointset_Powerset_-BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.31 int ppl_Pointset_Powerset_BD_Shape_mpz_class_difference_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *y*) [related]

10.80.2.32 int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_disjunct (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_-const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *cit*, ppl_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *it*) [related]

10.80.2.33 int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_disjuncts (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, ppl_-const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *first*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_iterator_t *last*) [related]

10.80.2.34 int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_some_non_integer_points (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.80.2.35 int ppl_Pointset_Powerset_BD_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.80.2.36 int ppl_Pointset_Powerset_BD_Shape_mpz_class_equals_Pointset_Powerset_-BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.37 int ppl_Pointset_Powerset_BD_Shape_mpz_class_expand_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.80.2.38 int ppl_Pointset_Powerset_BD_Shape_mpz_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, size_t * *sz*) [related]

10.80.2.39 int ppl_Pointset_Powerset_BD_Shape_mpz_class_fold_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.80.2.40 int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_image (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.80.2.41 int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.80.2.42 int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_preimage (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.80.2.43 int ppl_Pointset_Powerset_BD_Shape_mpz_class_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.80.2.44 int ppl_Pointset_Powerset_BD_Shape_mpz_class_geometrically_covers_-Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_-Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.45 int ppl_Pointset_Powerset_BD_Shape_mpz_class_geometrically_equals_-Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_-Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.46 int ppl_Pointset_Powerset_BD_Shape_mpz_class_intersection_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *y*) [related]

10.80.2.47 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_bounded (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.48 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_discrete (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.49 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_disjoint_from_Pointset_Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.50 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_empty (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.51 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_topologically_closed (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.52 int ppl_Pointset_Powerset_BD_Shape_mpz_class_is_universe (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.53 int ppl_Pointset_Powerset_BD_Shape_mpz_class_map_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.80.2.54 int ppl_Pointset_Powerset_BD_Shape_mpz_class_maximize (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.80.2.55 int ppl_Pointset_Powerset_BD_Shape_mpz_class_maximize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.80.2.56 int ppl_Pointset_Powerset_BD_Shape_mpz_class_minimize (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.80.2.57 int ppl_Pointset_Powerset_BD_Shape_mpz_class_minimize_with_point (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.80.2.58 int ppl_Pointset_Powerset_BD_Shape_mpz_class_OK (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.59 int ppl_Pointset_Powerset_BD_Shape_mpz_class_omega_reduce (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.60 int ppl_Pointset_Powerset_BD_Shape_mpz_class_pairwise_reduce (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) [related]

10.80.2.61 int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_congruence (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.80.2.62 int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_congruences (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.80.2.63 int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_constraint (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.80.2.64 int ppl_Pointset_Powerset_BD_Shape_mpz_class_refine_with_constraints (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.80.2.65 int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Congruence (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.80.2.66 int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Constraint (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.80.2.67 int ppl_Pointset_Powerset_BD_Shape_mpz_class_relation_with_Generator (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.80.2.68 int ppl_Pointset_Powerset_BD_Shape_mpz_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.80.2.69 int ppl_Pointset_Powerset_BD_Shape_mpz_class_remove_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.80.2.70 int ppl_Pointset_Powerset_BD_Shape_mpz_class_simplify_using_-context_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) [related]

10.80.2.71 int ppl_Pointset_Powerset_BD_Shape_mpz_class_size (ppl_-const_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, size_t ∗ *sz*) [related]

10.80.2.72 int ppl_Pointset_Powerset_BD_Shape_mpz_class_space_dimension (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.80.2.73 int ppl_Pointset_Powerset_BD_Shape_mpz_class_strictly_contains_Pointset_-Powerset_BD_Shape_mpz_class (ppl_const_Pointset_Powerset_BD_Shape_-mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) `[related]`

10.80.2.74 int ppl_Pointset_Powerset_BD_Shape_mpz_class_time_elapse_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *y*) `[related]`

10.80.2.75 int ppl_Pointset_Powerset_BD_Shape_mpz_class_topological_closure_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*) `[related]`

10.80.2.76 int ppl_Pointset_Powerset_BD_Shape_mpz_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *ps*, size_t ∗ *sz*) `[related]`

10.80.2.77 int ppl_Pointset_Powerset_BD_Shape_mpz_class_unconstrain_space_dimension (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) `[related]`

10.80.2.78 int ppl_Pointset_Powerset_BD_Shape_mpz_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.80.2.79 int ppl_Pointset_Powerset_BD_Shape_mpz_class_upper_bound_assign (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_-BD_Shape_mpz_class_t *y*) `[related]`

10.80.2.80 int ppl_Pointset_Powerset_BD_Shape_mpz_class_upper_bound_-assign_if_exact (ppl_Pointset_Powerset_BD_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_BD_Shape_mpz_class_t *y*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.81 ppl_Pointset_Powerset_C_Polyhedron_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_C_Polyhedron_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Construction, Initialization and Destruction

- int ppl_new_Pointset_Powerset_C_Polyhedron_const_iterator (ppl_Pointset_Powerset_C_-Polyhedron_const_iterator_t *pit)
  Builds a new 'const iterator' and writes a handle to it at address `pit`.
- int ppl_new_Pointset_Powerset_C_Polyhedron_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_C_Polyhedron_const_iterator_t *pit, ppl_const_Pointset_Powerset_C_-Polyhedron_const_iterator_t y)
  Builds a copy of `y` *and writes a handle to it at address* `pit`.
- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_begin (ppl_const_Pointset_Powerset_-C_Polyhedron_t ps, ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t psit)
  Assigns to `psit` *a const iterator "pointing" to the beginning of the sequence of disjuncts of* `ps`.
- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_end (ppl_const_Pointset_Powerset_-C_Polyhedron_t ps, ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t psit)
  Assigns to `psit` *a const iterator "pointing" past the end of the sequence of disjuncts of* `ps`.
- int ppl_delete_Pointset_Powerset_C_Polyhedron_const_iterator (ppl_const_Pointset_Powerset_-C_Polyhedron_const_iterator_t it)
  Invalidates the handle `it`*: this makes sure the corresponding resources will eventually be released.*

Dereferencing, Increment, Decrement and Equality Testing

- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_dereference (ppl_const_Pointset_-Powerset_C_Polyhedron_const_iterator_t it, ppl_const_Polyhedron_t *d)
  Dereferences `it` *writing a const handle to the resulting disjunct at address* `d`.
- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_increment (ppl_Pointset_Powerset_C_-Polyhedron_const_iterator_t it)
  Increments `it` *so that it "points" to the next disjunct.*
- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_decrement (ppl_Pointset_Powerset_-C_Polyhedron_const_iterator_t it)
  Decrements `it` *so that it "points" to the previous disjunct.*
- int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_equal_test (ppl_const_Pointset_-Powerset_C_Polyhedron_const_iterator_t x, ppl_const_Pointset_Powerset_C_Polyhedron_-const_iterator_t y)

Returns a positive integer if the iterators corresponding to x *and* y *are equal; returns 0 if they are different.*

10.81.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_C_Polyhedron_tag.

10.81.2 Friends And Related Function Documentation

10.81.2.1 int ppl_delete_Pointset_Powerset_C_Polyhedron_const_iterator (ppl_const_Pointset_Powerset_C_Polyhedron_const_iterator_t *it*) [related]

Invalidates the handle `it`: this makes sure the corresponding resources will eventually be released.

10.81.2.2 int ppl_new_Pointset_Powerset_C_Polyhedron_const_iterator (ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t * *pit*) [related]

Builds a new 'const iterator' and writes a handle to it at address `pit`.

10.81.2.3 int ppl_new_Pointset_Powerset_C_Polyhedron_const_iterator_from_const_iterator (ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t * *pit*, ppl_const_Pointset_Powerset_C_Polyhedron_const_iterator_t *y*) [related]

Builds a copy of `y` and writes a handle to it at address `pit`.

10.81.2.4 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_begin (ppl_const_Pointset_Powerset_C_Polyhedron_t *ps*, ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t *psit*) [related]

Assigns to `psit` a const iterator "pointing" to the beginning of the sequence of disjuncts of `ps`.

10.81.2.5 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_decrement (ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t *it*) [related]

Decrements `it` so that it "points" to the previous disjunct.

10.81.2.6 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_dereference (ppl_const_Pointset_Powerset_C_Polyhedron_const_iterator_t *it*, ppl_const_Polyhedron_t * *d*) [related]

Dereferences `it` writing a const handle to the resulting disjunct at address `d`.

Warning

On exit, the disjunct `d` is still owned by the powerset object: any function call on the owning powerset object may invalidate it. Moreover, `d` should **not** be deleted directly: its resources will be released when deleting the owning powerset.

10.81.2.7 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_end (ppl_const_Pointset_Powerset_C_Polyhedron_t *ps*, ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t *psit*) [related]

Assigns to `psit` a const iterator "pointing" past the end of the sequence of disjuncts of `ps`.

10.81.2.8 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_equal_test (ppl_const_Pointset_Powerset_C_Polyhedron_const_iterator_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_const_iterator_t *y*) [related]

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

10.81.2.9 int ppl_Pointset_Powerset_C_Polyhedron_const_iterator_increment (ppl_Pointset_Powerset_C_Polyhedron_const_iterator_t *it*) [related]

Increments `it` so that it "points" to the next disjunct.

The documentation for this interface was generated from the following files:

- ppl_c.h
- C_interface.dox

10.82 ppl_Pointset_Powerset_C_Polyhedron_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_C_Polyhedron_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

Construction, Initialization and Destruction

- int ppl_new_Pointset_Powerset_C_Polyhedron_iterator (ppl_Pointset_Powerset_C_Polyhedron_iterator_t *pit)
  Builds a new 'iterator' and writes a handle to it at address `pit`.

- int ppl_new_Pointset_Powerset_C_Polyhedron_iterator_from_iterator (ppl_Pointset_Powerset_C_Polyhedron_iterator_t *pit, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t y)
  Builds a copy of `y` and writes a handle to it at address `pit`.
- int ppl_Pointset_Powerset_C_Polyhedron_iterator_begin (ppl_Pointset_Powerset_C_Polyhedron_t ps, ppl_Pointset_Powerset_C_Polyhedron_iterator_t psit)
  Assigns to `psit` an iterator "pointing" to the beginning of the sequence of disjuncts of `ps`.
- int ppl_Pointset_Powerset_C_Polyhedron_iterator_end (ppl_Pointset_Powerset_C_Polyhedron_t ps, ppl_Pointset_Powerset_C_Polyhedron_iterator_t psit)
  Assigns to `psit` an iterator "pointing" past the end of the sequence of disjuncts of `ps`.
- int ppl_delete_Pointset_Powerset_C_Polyhedron_iterator (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t it)
  Invalidates the handle `it`: this makes sure the corresponding resources will eventually be released.

Dereferencing, Increment, Decrement and Equality Testing

- int ppl_Pointset_Powerset_C_Polyhedron_iterator_dereference (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t it, ppl_const_Polyhedron_t *d)
  Dereferences `it` writing a const handle to the resulting disjunct at address `d`.
- int ppl_Pointset_Powerset_C_Polyhedron_iterator_increment (ppl_Pointset_Powerset_C_Polyhedron_iterator_t it)
  Increments `it` so that it "points" to the next disjunct.
- int ppl_Pointset_Powerset_C_Polyhedron_iterator_decrement (ppl_Pointset_Powerset_C_Polyhedron_iterator_t it)
  Decrements `it` so that it "points" to the previous disjunct.
- int ppl_Pointset_Powerset_C_Polyhedron_iterator_equal_test (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t x, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t y)
  Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

10.82.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_C_Polyhedron_tag.

10.82.2 Friends And Related Function Documentation

10.82.2.1 int ppl_delete_Pointset_Powerset_C_Polyhedron_iterator (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *it*) `[related]`

Invalidates the handle `it`: this makes sure the corresponding resources will eventually be released.

10.82.2.2 int ppl_new_Pointset_Powerset_C_Polyhedron_iterator (ppl_Pointset_Powerset_C_Polyhedron_iterator_t * *pit*) `[related]`

Builds a new 'iterator' and writes a handle to it at address pit.

10.82.2.3 int ppl_new_Pointset_Powerset_C_Polyhedron_iterator_from_-iterator (ppl_Pointset_Powerset_C_Polyhedron_iterator_t * *pit*, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *y*) [related]

Builds a copy of y and writes a handle to it at address pit.

10.82.2.4 int ppl_Pointset_Powerset_C_Polyhedron_iterator_begin (ppl_Pointset_Powerset_-C_Polyhedron_t *ps*, ppl_Pointset_Powerset_C_Polyhedron_iterator_t *psit*) [related]

Assigns to psit an iterator "pointing" to the beginning of the sequence of disjuncts of ps.

10.82.2.5 int ppl_Pointset_Powerset_C_Polyhedron_iterator_decrement (ppl_Pointset_Powerset_C_Polyhedron_iterator_t *it*) [related]

Decrements it so that it "points" to the previous disjunct.

10.82.2.6 int ppl_Pointset_Powerset_C_Polyhedron_iterator_dereference (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *it*, ppl_const_Polyhedron_t * *d*) [related]

Dereferences it writing a const handle to the resulting disjunct at address d.

Note

Even though it is an non-const iterator, dereferencing it results in a handle to a **const** disjunct. This is because mutable iterators are meant to allow for the modification of the sequence of disjuncts (e.g., by dropping elements), while preventing direct modifications of the disjuncts they point to.

Warning

On exit, the disjunct d is still owned by the powerset object: any function call on the owning powerset object may invalidate it. Moreover, d should **not** be deleted directly: its resources will be released when deleting the owning powerset.

10.82.2.7 int ppl_Pointset_Powerset_C_Polyhedron_iterator_end (ppl_Pointset_Powerset_-C_Polyhedron_t *ps*, ppl_Pointset_Powerset_C_Polyhedron_iterator_t *psit*) [related]

Assigns to psit an iterator "pointing" past the end of the sequence of disjuncts of ps.

10.82.2.8 int ppl_Pointset_Powerset_C_Polyhedron_iterator_equal_test (ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *y*) [related]

Returns a positive integer if the iterators corresponding to `x` and `y` are equal; returns 0 if they are different.

10.82.2.9 int ppl_Pointset_Powerset_C_Polyhedron_iterator_increment (ppl_Pointset_Powerset_C_Polyhedron_iterator_t *it*) [related]

Increments `it` so that it "points" to the next disjunct.

The documentation for this interface was generated from the following files:

- ppl_c.h
- C_interface.dox

10.83 ppl_Pointset_Powerset_C_Polyhedron_tag Interface Reference

Types and functions for the Pointset_Powerset of C_Polyhedron objects.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t ph)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_Pointset_Powerset_C_Polyhedron (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Pointset_Powerset_C_Polyhedron_t ph)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_C_Polyhedron (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_Pointset_Powerset_C_Polyhedron_with_complexity (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Pointset_Powerset_C_Polyhedron_t ph, int complexity)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_Constraint_System (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_C_Polyhedron_from_Congruence_System (ppl_Pointset_Powerset_C_Polyhedron_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_C_Polyhedron_space_dimension (ppl_const_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_C_Polyhedron_affine_dimension (ppl_const_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Constraint (ppl_const_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Constraint_t c)

- int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Generator (ppl_const_Pointset_-Powerset_C_Polyhedron_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Congruence (ppl_const_Pointset_-Powerset_C_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_C_Polyhedron_is_empty (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_is_universe (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_is_bounded (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_contains_integer_point (ppl_const_Pointset_Powerset_-C_Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_is_topologically_closed (ppl_const_Pointset_Powerset_-C_Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_is_discrete (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_topological_closure_assign (ppl_Pointset_Powerset_C_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_omega_reduce (ppl_Pointset_Powerset_C_Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_bounds_from_above (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_C_Polyhedron_bounds_from_below (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_C_Polyhedron_maximize (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_C_Polyhedron_minimize (ppl_const_Pointset_Powerset_C_-Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_C_Polyhedron_maximize_with_point (ppl_const_Pointset_Powerset_-C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_C_Polyhedron_minimize_with_point (ppl_const_Pointset_Powerset_-C_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_C_Polyhedron_contains_Pointset_Powerset_C_Polyhedron (ppl_const_-Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_strictly_contains_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_is_disjoint_from_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_equals_Pointset_Powerset_C_Polyhedron (ppl_const_-Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_OK (ppl_const_Pointset_Powerset_C_Polyhedron_t ph)
- int ppl_Pointset_Powerset_C_Polyhedron_add_constraint (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_C_Polyhedron_add_congruence (ppl_Pointset_Powerset_C_-Polyhedron_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_C_Polyhedron_add_constraints (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_C_Polyhedron_add_congruences (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_C_Polyhedron_refine_with_constraint (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_C_Polyhedron_refine_with_congruence (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_C_Polyhedron_refine_with_constraints (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_C_Polyhedron_refine_with_congruences (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_C_Polyhedron_intersection_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_upper_bound_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_difference_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_concatenate_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_time_elapse_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_upper_bound_assign_if_exact (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_simplify_using_context_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_constrains (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_C_Polyhedron_unconstrain_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_C_Polyhedron_unconstrain_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_C_Polyhedron_affine_image (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_affine_preimage (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_bounded_affine_image (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_bounded_affine_preimage (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_image (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_preimage (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_C_Polyhedron_add_space_dimensions_and_embed (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_C_Polyhedron_add_space_dimensions_and_project (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_C_Polyhedron_remove_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_C_Polyhedron_remove_higher_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_C_Polyhedron_expand_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_C_Polyhedron_fold_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_C_Polyhedron_map_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_C_Polyhedron_drop_some_non_integer_points (ppl_Pointset_Powerset_C_Polyhedron_t ph, int complexity)
- int ppl_Pointset_Powerset_C_Polyhedron_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_C_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_C_Polyhedron_external_memory_in_bytes (ppl_const_Pointset_Powerset_C_Polyhedron_t ps, size_t *sz)
- int ppl_Pointset_Powerset_C_Polyhedron_total_memory_in_bytes (ppl_const_Pointset_Powerset_C_Polyhedron_t ps, size_t *sz)
- int ppl_Pointset_Powerset_C_Polyhedron_BHZ03_BHRZ03_BHRZ03_widening_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)
- int ppl_Pointset_Powerset_C_Polyhedron_BGP99_BHRZ03_extrapolation_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y, int disjuncts)
- int ppl_Pointset_Powerset_C_Polyhedron_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y, int disjuncts)

Ad Hoc Functions for Pointset_Powerset domains

- int ppl_Pointset_Powerset_C_Polyhedron_omega_reduce (ppl_const_Pointset_Powerset_C_Polyhedron_t ps)

  Drops from the sequence of disjuncts in `ps` *all the non-maximal elements so that* `ps` *is non-redundant.*

- int ppl_Pointset_Powerset_C_Polyhedron_size (ppl_const_Pointset_Powerset_C_Polyhedron_t ps, size_t *sz)

  Writes to `sz` *the number of disjuncts in* `ps`*.*

- int ppl_Pointset_Powerset_C_Polyhedron_geometrically_covers_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)

  Returns a positive integer if powerset `x` *geometrically covers powerset* `y`*; returns 0 otherwise.*

- int ppl_Pointset_Powerset_C_Polyhedron_geometrically_equals_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t x, ppl_const_Pointset_Powerset_C_Polyhedron_t y)

  Returns a positive integer if powerset `x` *is geometrically equal to powerset* `y`*; returns 0 otherwise.*

- int ppl_Pointset_Powerset_C_Polyhedron_add_disjunct (ppl_Pointset_Powerset_C_Polyhedron_t ps, ppl_const_Polyhedron_t d)
  Adds to `ps` a copy of disjunct `d`.
- int ppl_Pointset_Powerset_C_Polyhedron_drop_disjunct (ppl_Pointset_Powerset_C_Polyhedron_t ps, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t cit, ppl_Pointset_Powerset_C_Polyhedron_iterator_t it)
  Drops from `ps` the disjunct pointed to by `cit`, assigning to `it` an iterator to the disjunct following `cit`.
- int ppl_Pointset_Powerset_C_Polyhedron_drop_disjuncts (ppl_Pointset_Powerset_C_Polyhedron_t ps, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t first, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t last)
  Drops from `ps` all the disjuncts from `first` to `last` (excluded).
- int ppl_Pointset_Powerset_C_Polyhedron_pairwise_reduce (ppl_Pointset_Powerset_C_Polyhedron_t ps)
  Modifies `ps` by (recursively) merging together the pairs of disjuncts whose upper-bound is the same as their set-theoretical union.

10.83.1 Detailed Description

Types and functions for the Pointset_Powerset of C_Polyhedron objects. Types and functions for ppl_Pointset_Powerset_C_Polyhedron_tag.

The powerset domains can be instantiated by taking as a base domain any fixed semantic geometric description (C and NNC polyhedra, BD and octagonal shapes, boxes and grids). An element of the powerset domain represents a disjunctive collection of base objects (its disjuncts), all having the same space dimension.

Besides the functions that are available in all semantic geometric descriptions (whose documentation is not repeated here), the powerset domain also provides several ad hoc functions. In particular, the iterator types allow for the examination and manipulation of the collection of disjuncts.

10.83.2 Friends And Related Function Documentation

10.83.2.1 int ppl_delete_Pointset_Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) `[related]`

10.83.2.2 int ppl_new_Pointset_Powerset_C_Polyhedron_from_C_Polyhedron (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) `[related]`

10.83.2.3 int ppl_new_Pointset_Powerset_C_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) `[related]`

10.83.2.4 int ppl_new_Pointset_Powerset_C_Polyhedron_from_Congruence_System (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.83.2.5 int ppl_new_Pointset_Powerset_C_Polyhedron_from_Constraint_System (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.83.2.6 int ppl_new_Pointset_Powerset_C_Polyhedron_from_Pointset_Powerset_C_Polyhedron (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.7 int ppl_new_Pointset_Powerset_C_Polyhedron_from_Pointset_Powerset_C_Polyhedron_with_complexity (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, int *complexity*) [related]

10.83.2.8 int ppl_new_Pointset_Powerset_C_Polyhedron_from_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.83.2.9 int ppl_Pointset_Powerset_C_Polyhedron_add_congruence (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.83.2.10 int ppl_Pointset_Powerset_C_Polyhedron_add_congruences (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.83.2.11 int ppl_Pointset_Powerset_C_Polyhedron_add_constraint (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.83.2.12 int ppl_Pointset_Powerset_C_Polyhedron_add_constraints (ppl_Pointset_-Powerset_C_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.83.2.13 int ppl_Pointset_Powerset_C_Polyhedron_add_disjunct (ppl_-Pointset_Powerset_C_Polyhedron_t *ps*, ppl_const_Polyhedron_t *d*) [related]

Adds to `ps` a copy of disjunct `d`.

10.83.2.14 int ppl_Pointset_Powerset_C_Polyhedron_add_space_dimensions_and_embed (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.83.2.15 int ppl_Pointset_Powerset_C_Polyhedron_add_space_dimensions_and_project (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.83.2.16 int ppl_Pointset_Powerset_C_Polyhedron_affine_dimension (ppl_-const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.83.2.17 int ppl_Pointset_Powerset_C_Polyhedron_affine_image (ppl_Pointset_Powerset_-C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.83.2.18 int ppl_Pointset_Powerset_C_Polyhedron_affine_preimage (ppl_Pointset_Powerset_-C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.83.2.19 int ppl_Pointset_Powerset_C_Polyhedron_BGP99_BHRZ03_-extrapolation_assign (ppl_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*, int *disjuncts*) [related]

10.83.2.20 int ppl_Pointset_Powerset_C_Polyhedron_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*, int *disjuncts*) [related]

10.83.2.21 int ppl_Pointset_Powerset_C_Polyhedron_BHZ03_BHRZ03_BHRZ03_widening_assign (ppl_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.22 int ppl_Pointset_Powerset_C_Polyhedron_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.23 int ppl_Pointset_Powerset_C_Polyhedron_bounded_affine_image (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.83.2.24 int ppl_Pointset_Powerset_C_Polyhedron_bounded_affine_preimage (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.83.2.25 int ppl_Pointset_Powerset_C_Polyhedron_bounds_from_above (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.83.2.26 int ppl_Pointset_Powerset_C_Polyhedron_bounds_from_below (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.83.2.27 int ppl_Pointset_Powerset_C_Polyhedron_concatenate_assign (ppl_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.28 int ppl_Pointset_Powerset_C_Polyhedron_constrains (ppl_Pointset_Powerset_C_-Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.83.2.29 int ppl_Pointset_Powerset_C_Polyhedron_contains_integer_point (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.30 int ppl_Pointset_Powerset_C_Polyhedron_contains_Pointset_Powerset_-C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.31 int ppl_Pointset_Powerset_C_Polyhedron_difference_assign (ppl_Pointset_-Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.32 int ppl_Pointset_Powerset_C_Polyhedron_drop_disjunct (ppl_Pointset_Powerset_-C_Polyhedron_t *ps*, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *cit*, ppl_Pointset_Powerset_C_Polyhedron_iterator_t *it*) [related]

Drops from `ps` the disjunct pointed to by `cit`, assigning to `it` an iterator to the disjunct following `cit`.

10.83.2.33 int ppl_Pointset_Powerset_C_Polyhedron_drop_disjuncts (ppl_Pointset_Powerset_-C_Polyhedron_t *ps*, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *first*, ppl_const_Pointset_Powerset_C_Polyhedron_iterator_t *last*) [related]

Drops from `ps` all the disjuncts from `first` to `last` (excluded).

10.83.2.34 int ppl_Pointset_Powerset_C_Polyhedron_drop_some_non_integer_points (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, int *complexity*) [related]

10.83.2.35 int ppl_Pointset_Powerset_C_Polyhedron_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.83.2.36 int ppl_Pointset_Powerset_C_Polyhedron_equals_Pointset_Powerset_-C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.37 int ppl_Pointset_Powerset_C_Polyhedron_expand_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.83.2.38 int ppl_Pointset_Powerset_C_Polyhedron_external_memory_in_bytes (ppl_const_Pointset_Powerset_C_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.83.2.39 int ppl_Pointset_Powerset_C_Polyhedron_fold_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.83.2.40 int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_image (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.83.2.41 int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.83.2.42 int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_preimage (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.83.2.43 int ppl_Pointset_Powerset_C_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.83.2.44 int ppl_Pointset_Powerset_C_Polyhedron_geometrically_covers_Pointset_-Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

Returns a positive integer if powerset `x` geometrically covers powerset `y`; returns 0 otherwise.

10.83.2.45 int ppl_Pointset_Powerset_C_Polyhedron_geometrically_equals_Pointset_-Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

Returns a positive integer if powerset `x` is geometrically equal to powerset `y`; returns 0 otherwise.

10.83.2.46 int ppl_Pointset_Powerset_C_Polyhedron_intersection_assign (ppl_Pointset_-Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.47 int ppl_Pointset_Powerset_C_Polyhedron_is_bounded (ppl_const_Pointset_Powerset_-C_Polyhedron_t *ph*) [related]

10.83.2.48 int ppl_Pointset_Powerset_C_Polyhedron_is_discrete (ppl_const_Pointset_Powerset_-C_Polyhedron_t *ph*) [related]

10.83.2.49 int ppl_Pointset_Powerset_C_Polyhedron_is_disjoint_from_Pointset_-Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.50 int ppl_Pointset_Powerset_C_Polyhedron_is_empty (ppl_const_Pointset_Powerset_C_-Polyhedron_t *ph*) [related]

10.83.2.51 int ppl_Pointset_Powerset_C_Polyhedron_is_topologically_closed (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.52 int ppl_Pointset_Powerset_C_Polyhedron_is_universe (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.53 int ppl_Pointset_Powerset_C_Polyhedron_map_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.83.2.54 int ppl_Pointset_Powerset_C_Polyhedron_maximize (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.83.2.55 int ppl_Pointset_Powerset_C_Polyhedron_maximize_with_point (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.83.2.56 int ppl_Pointset_Powerset_C_Polyhedron_minimize (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.83.2.57 int ppl_Pointset_Powerset_C_Polyhedron_minimize_with_point (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.83.2.58 int ppl_Pointset_Powerset_C_Polyhedron_OK (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.59 int ppl_Pointset_Powerset_C_Polyhedron_omega_reduce (ppl_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.60 int ppl_Pointset_Powerset_C_Polyhedron_omega_reduce (ppl_const_Pointset_Powerset_C_Polyhedron_t *ps*) [related]

Drops from the sequence of disjuncts in `ps` all the non-maximal elements so that `ps` is non-redundant.

10.83.2.61 int ppl_Pointset_Powerset_C_Polyhedron_pairwise_reduce (ppl_Pointset_Powerset_C_Polyhedron_t *ps*) [related]

Modifies `ps` by (recursively) merging together the pairs of disjuncts whose upper-bound is the same as their set-theoretical union.

10.83.2.62 int ppl_Pointset_Powerset_C_Polyhedron_refine_with_congruence (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.83.2.63 int ppl_Pointset_Powerset_C_Polyhedron_refine_with_congruences (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.83.2.64 int ppl_Pointset_Powerset_C_Polyhedron_refine_with_constraint (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.83.2.65 int ppl_Pointset_Powerset_C_Polyhedron_refine_with_constraints (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.83.2.66 int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Congruence (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.83.2.67 int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Constraint (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.83.2.68 int ppl_Pointset_Powerset_C_Polyhedron_relation_with_Generator (ppl_const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_const_Generator_t *c*) [related]

10.83.2.69 int ppl_Pointset_Powerset_C_Polyhedron_remove_higher_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.83.2.70 int ppl_Pointset_Powerset_C_Polyhedron_remove_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.83.2.71 int ppl_Pointset_Powerset_C_Polyhedron_simplify_using_context_assign (ppl_-Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.72 int ppl_Pointset_Powerset_C_Polyhedron_size (ppl_const_Pointset_Powerset_C_-Polyhedron_t *ps*, size_t ∗ *sz*) [related]

Writes to `sz` the number of disjuncts in `ps`.

Note

If present, Omega-redundant elements will be counted too.

10.83.2.73 int ppl_Pointset_Powerset_C_Polyhedron_space_dimension (ppl_-const_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.83.2.74 int ppl_Pointset_Powerset_C_Polyhedron_strictly_contains_Pointset_-Powerset_C_Polyhedron (ppl_const_Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.75 int ppl_Pointset_Powerset_C_Polyhedron_time_elapse_assign (ppl_Pointset_-Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.76 int ppl_Pointset_Powerset_C_Polyhedron_topological_closure_assign (ppl_Pointset_Powerset_C_Polyhedron_t *ph*) [related]

10.83.2.77 int ppl_Pointset_Powerset_C_Polyhedron_total_memory_in_bytes (ppl_const_Pointset_Powerset_C_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.83.2.78 int ppl_Pointset_Powerset_C_Polyhedron_unconstrain_space_dimension (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.83.2.79 int ppl_Pointset_Powerset_C_Polyhedron_unconstrain_space_dimensions (ppl_Pointset_Powerset_C_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.83.2.80 int ppl_Pointset_Powerset_C_Polyhedron_upper_bound_assign (ppl_Pointset_-Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

10.83.2.81 int ppl_Pointset_Powerset_C_Polyhedron_upper_bound_assign_if_exact (ppl_-Pointset_Powerset_C_Polyhedron_t *x*, ppl_const_Pointset_Powerset_C_Polyhedron_t *y*) [related]

The documentation for this interface was generated from the following files:

- C_interface.dox
- ppl_c.h

10.84 ppl_Pointset_Powerset_Double_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Double_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Double_Box_const_iterator (ppl_Pointset_Powerset_Double_Box_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Double_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Double_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Double_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Double_Box_t ps, ppl_Pointset_Powerset_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_end (ppl_const_Pointset_Powerset_Double_Box_t ps, ppl_Pointset_Powerset_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Double_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Double_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_increment (ppl_Pointset_Powerset_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_decrement (ppl_Pointset_Powerset_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Double_Box_const_iterator_t ps, ppl_const_Double_Box_t *d)
- int ppl_delete_Pointset_Powerset_Double_Box_const_iterator (ppl_const_Pointset_Powerset_Double_Box_const_iterator_t psit)

10.84.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Double_Box_tag.

10.84.2 Friends And Related Function Documentation

10.84.2.1 int ppl_delete_Pointset_Powerset_Double_Box_const_iterator (ppl_const_Pointset_Powerset_Double_Box_const_iterator_t *psit*) [related]

10.84.2.2 int ppl_new_Pointset_Powerset_Double_Box_const_iterator (ppl_Pointset_Powerset_Double_Box_const_iterator_t * *pit*) [related]

10.84.2.3 int ppl_new_Pointset_Powerset_Double_Box_const_iterator_from_-const_iterator (ppl_Pointset_Powerset_Double_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Double_Box_const_iterator_t *y*) `[related]`

10.84.2.4 int ppl_Pointset_Powerset_Double_Box_const_iterator_begin (ppl_const_Pointset_-Powerset_Double_Box_t *ps*, ppl_Pointset_Powerset_Double_Box_const_iterator_t *psit*) `[related]`

10.84.2.5 int ppl_Pointset_Powerset_Double_Box_const_iterator_decrement (ppl_Pointset_Powerset_Double_Box_const_iterator_t *psit*) `[related]`

10.84.2.6 int ppl_Pointset_Powerset_Double_Box_const_iterator_dereference (ppl_const_-Pointset_Powerset_Double_Box_const_iterator_t *ps*, ppl_const_Double_Box_t * *d*) `[related]`

10.84.2.7 int ppl_Pointset_Powerset_Double_Box_const_iterator_end (ppl_const_Pointset_-Powerset_Double_Box_t *ps*, ppl_Pointset_Powerset_Double_Box_const_iterator_t *psit*) `[related]`

10.84.2.8 int ppl_Pointset_Powerset_Double_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Double_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Double_Box_const_iterator_t *y*) `[related]`

10.84.2.9 int ppl_Pointset_Powerset_Double_Box_const_iterator_increment (ppl_Pointset_Powerset_Double_Box_const_iterator_t *psit*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.85 ppl_Pointset_Powerset_Double_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Double_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Double_Box_iterator (ppl_Pointset_Powerset_Double_Box_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Double_Box_iterator_from_iterator (ppl_Pointset_Powerset_Double_Box_iterator_t *px, ppl_const_Pointset_Powerset_Double_Box_iterator_t y)
- int ppl_Pointset_Powerset_Double_Box_iterator_begin (ppl_Pointset_Powerset_Double_Box_t ps, ppl_Pointset_Powerset_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_iterator_end (ppl_Pointset_Powerset_Double_Box_t ps, ppl_Pointset_Powerset_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Double_Box_iterator_t x, ppl_const_Pointset_Powerset_Double_Box_iterator_t y)
- int ppl_Pointset_Powerset_Double_Box_iterator_increment (ppl_Pointset_Powerset_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_iterator_decrement (ppl_Pointset_Powerset_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Double_Box_iterator_dereference (ppl_const_Pointset_Powerset_Double_Box_iterator_t ps, ppl_const_Double_Box_t *d)
- int ppl_delete_Pointset_Powerset_Double_Box_iterator (ppl_const_Pointset_Powerset_Double_Box_iterator_t psit)

10.85.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Double_Box_tag.

10.85.2 Friends And Related Function Documentation

10.85.2.1 int ppl_delete_Pointset_Powerset_Double_Box_iterator (ppl_const_Pointset_Powerset_Double_Box_iterator_t *psit*) [related]

10.85.2.2 int ppl_new_Pointset_Powerset_Double_Box_iterator (ppl_Pointset_Powerset_Double_Box_iterator_t * *pit*) [related]

10.85.2.3 int ppl_new_Pointset_Powerset_Double_Box_iterator_from_iterator (ppl_Pointset_Powerset_Double_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Double_Box_iterator_t *y*) [related]

10.85.2.4 int ppl_Pointset_Powerset_Double_Box_iterator_begin (ppl_Pointset_Powerset_Double_Box_t *ps*, ppl_Pointset_Powerset_Double_Box_iterator_t *psit*) [related]

10.85.2.5 int ppl_Pointset_Powerset_Double_Box_iterator_decrement (ppl_Pointset_Powerset_Double_Box_iterator_t *psit*) [related]

10.85.2.6 int ppl_Pointset_Powerset_Double_Box_iterator_dereference (ppl_const_Pointset_Powerset_Double_Box_iterator_t *ps*, ppl_const_Double_Box_t * *d*) [related]

10.85.2.7 int ppl_Pointset_Powerset_Double_Box_iterator_end (ppl_Pointset_Powerset_Double_Box_t *ps*, ppl_Pointset_Powerset_Double_Box_iterator_t *psit*) [related]

10.85.2.8 int ppl_Pointset_Powerset_Double_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Double_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Double_Box_iterator_t *y*) [related]

10.85.2.9 int ppl_Pointset_Powerset_Double_Box_iterator_increment (ppl_Pointset_Powerset_Double_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.86 ppl_Pointset_Powerset_Double_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Double_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_new_Pointset_Powerset_Double_Box_from_space_dimension (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Double_Box_from_Pointset_Powerset_Double_Box (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_new_Pointset_Powerset_Double_Box_from_Double_Box (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Double_Box_t ph)

- int ppl_new_Pointset_Powerset_Double_Box_from_Pointset_Powerset_Double_Box_with_complexity (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Pointset_Powerset_Double_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Double_Box_from_Double_Box_with_complexity (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Double_Box_from_Constraint_System (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Double_Box_from_Congruence_System (ppl_Pointset_Powerset_Double_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Double_Box_space_dimension (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Double_Box_affine_dimension (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Double_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Double_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Double_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Double_Box_is_empty (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_is_universe (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_is_bounded (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_contains_integer_point (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_is_discrete (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_topological_closure_assign (ppl_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_pairwise_reduce (ppl_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_omega_reduce (ppl_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_bounds_from_above (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Double_Box_bounds_from_below (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Double_Box_maximize (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Double_Box_minimize (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Double_Box_maximize_with_point (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Double_Box_minimize_with_point (ppl_const_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_Double_Box_contains_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_strictly_contains_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_is_disjoint_from_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_geometrically_covers_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_geometrically_equals_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_equals_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_OK (ppl_const_Pointset_Powerset_Double_Box_t ph)
- int ppl_Pointset_Powerset_Double_Box_add_constraint (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Double_Box_add_congruence (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Double_Box_add_constraints (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Double_Box_add_congruences (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Double_Box_refine_with_constraint (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Double_Box_refine_with_congruence (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Double_Box_refine_with_constraints (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Double_Box_refine_with_congruences (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Double_Box_intersection_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_upper_bound_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_difference_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_concatenate_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_time_elapse_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Double_Box_t x, ppl_const_Pointset_Powerset_Double_Box_t y)
- int ppl_Pointset_Powerset_Double_Box_constrains (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Double_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Double_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Double_Box_affine_image (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Double_Box_affine_preimage (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Double_Box_bounded_affine_image (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Double_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Double_Box_generalized_affine_image (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Double_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Double_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Double_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Double_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Double_Box_remove_space_dimensions (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Double_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Double_Box_expand_space_dimension (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Double_Box_fold_space_dimensions (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Double_Box_map_space_dimensions (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Double_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Double_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Double_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Double_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Double_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Double_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Double_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Double_Box_size (ppl_const_Pointset_Powerset_Double_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Double_Box_add_disjunct (ppl_Pointset_Powerset_Double_Box_t ps, ppl_const_Double_Box_t d)
- int ppl_Pointset_Powerset_Double_Box_drop_disjunct (ppl_Pointset_Powerset_Double_Box_t ps, ppl_const_Pointset_Powerset_Double_Box_iterator_t cit, ppl_Pointset_Powerset_Double_Box_iterator_t it)
- int ppl_Pointset_Powerset_Double_Box_drop_disjuncts (ppl_Pointset_Powerset_Double_Box_t ps, ppl_const_Pointset_Powerset_Double_Box_iterator_t first, ppl_const_Pointset_Powerset_Double_Box_iterator_t last)

10.86.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Double_Box_tag.

10.86.2 Friends And Related Function Documentation

10.86.2.1 int ppl_delete_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_-Box_t *ph*) [related]

10.86.2.2 int ppl_new_Pointset_Powerset_Double_Box_from_Congruence_System (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.86.2.3 int ppl_new_Pointset_Powerset_Double_Box_from_Constraint_System (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.86.2.4 int ppl_new_Pointset_Powerset_Double_Box_from_Double_Box (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.86.2.5 int ppl_new_Pointset_Powerset_Double_Box_from_Double_Box_with_complexity (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.86.2.6 int ppl_new_Pointset_Powerset_Double_Box_from_Pointset_-Powerset_Double_Box (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Double_Box_t *ph*) [related]

10.86.2.7 int ppl_new_Pointset_Powerset_Double_Box_from_Pointset_Powerset_-Double_Box_with_complexity (ppl_Pointset_Powerset_Double_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Double_Box_t *ph*, int *complexity*) [related]

10.86.2.8 int ppl_new_Pointset_Powerset_Double_Box_from_space_dimension (ppl_Pointset_Powerset_Double_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.86.2.9 int ppl_Pointset_Powerset_Double_Box_add_congruence (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.86.2.10 int ppl_Pointset_Powerset_Double_Box_add_congruences (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.86.2.11 int ppl_Pointset_Powerset_Double_Box_add_constraint (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.86.2.12 int ppl_Pointset_Powerset_Double_Box_add_constraints (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.86.2.13 int ppl_Pointset_Powerset_Double_Box_add_disjunct (ppl_Pointset_Powerset_Double_Box_t *ps*, ppl_const_Double_Box_t *d*) [related]

10.86.2.14 int ppl_Pointset_Powerset_Double_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.86.2.15 int ppl_Pointset_Powerset_Double_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.86.2.16 int ppl_Pointset_Powerset_Double_Box_affine_dimension (ppl_const_-Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.86.2.17 int ppl_Pointset_Powerset_Double_Box_affine_image (ppl_Pointset_Powerset_-Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.86.2.18 int ppl_Pointset_Powerset_Double_Box_affine_preimage (ppl_Pointset_Powerset_-Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.86.2.19 int ppl_Pointset_Powerset_Double_Box_bounded_affine_image (ppl_Pointset_-Powerset_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.86.2.20 int ppl_Pointset_Powerset_Double_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.86.2.21 int ppl_Pointset_Powerset_Double_Box_bounds_from_above (ppl_const_-Pointset_Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.86.2.22 int ppl_Pointset_Powerset_Double_Box_bounds_from_below (ppl_const_-Pointset_Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.86.2.23 int ppl_Pointset_Powerset_Double_Box_concatenate_assign (ppl_Pointset_-Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.24 int ppl_Pointset_Powerset_Double_Box_constrains (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.86.2.25 int ppl_Pointset_Powerset_Double_Box_contains_integer_point (ppl_const_Pointset_Powerset_Double_Box_t *ph*) [related]

10.86.2.26 int ppl_Pointset_Powerset_Double_Box_contains_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.27 int ppl_Pointset_Powerset_Double_Box_difference_assign (ppl_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.28 int ppl_Pointset_Powerset_Double_Box_drop_disjunct (ppl_Pointset_Powerset_Double_Box_t *ps*, ppl_const_Pointset_Powerset_Double_Box_iterator_t *cit*, ppl_Pointset_Powerset_Double_Box_iterator_t *it*) [related]

10.86.2.29 int ppl_Pointset_Powerset_Double_Box_drop_disjuncts (ppl_Pointset_Powerset_Double_Box_t *ps*, ppl_const_Pointset_Powerset_Double_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Double_Box_iterator_t *last*) [related]

10.86.2.30 int ppl_Pointset_Powerset_Double_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Double_Box_t *ph*, int *complexity*) [related]

10.86.2.31 int ppl_Pointset_Powerset_Double_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.86.2.32 int ppl_Pointset_Powerset_Double_Box_equals_Pointset_Powerset_-Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.33 int ppl_Pointset_Powerset_Double_Box_expand_space_dimension (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.86.2.34 int ppl_Pointset_Powerset_Double_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Double_Box_t *ps*, size_t * *sz*) [related]

10.86.2.35 int ppl_Pointset_Powerset_Double_Box_fold_space_dimensions (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.86.2.36 int ppl_Pointset_Powerset_Double_Box_generalized_affine_image (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.86.2.37 int ppl_Pointset_Powerset_Double_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.86.2.38 int ppl_Pointset_Powerset_Double_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.86.2.39 int ppl_Pointset_Powerset_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.86.2.40 int ppl_Pointset_Powerset_Double_Box_geometrically_covers_Pointset_-Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.41 int ppl_Pointset_Powerset_Double_Box_geometrically_equals_Pointset_-Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.42 int ppl_Pointset_Powerset_Double_Box_intersection_assign (ppl_Pointset_-Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.43 int ppl_Pointset_Powerset_Double_Box_is_bounded (ppl_const_Pointset_Powerset_-Double_Box_t *ph*) [related]

10.86.2.44 int ppl_Pointset_Powerset_Double_Box_is_discrete (ppl_const_Pointset_Powerset_-Double_Box_t *ph*) [related]

10.86.2.45 int ppl_Pointset_Powerset_Double_Box_is_disjoint_from_Pointset_-Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.46 int ppl_Pointset_Powerset_Double_Box_is_empty (ppl_const_Pointset_Powerset_-Double_Box_t *ph*) [related]

10.86.2.47 int ppl_Pointset_Powerset_Double_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Double_Box_t *ph*) [related]

10.86.2.48 int ppl_Pointset_Powerset_Double_Box_is_universe (ppl_const_Pointset_Powerset_-Double_Box_t *ph*) [related]

10.86.2.49 int ppl_Pointset_Powerset_Double_Box_map_space_dimensions (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.86.2.50 int ppl_Pointset_Powerset_Double_Box_maximize (ppl_const_Pointset_Powerset_-Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.86.2.51 int ppl_Pointset_Powerset_Double_Box_maximize_with_point (ppl_const_Pointset_-Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.86.2.52 int ppl_Pointset_Powerset_Double_Box_minimize (ppl_const_Pointset_Powerset_-Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.86.2.53 int ppl_Pointset_Powerset_Double_Box_minimize_with_point (ppl_const_Pointset_-Powerset_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.86.2.54 int ppl_Pointset_Powerset_Double_Box_OK (ppl_const_Pointset_Powerset_Double_-Box_t *ph*) [related]

10.86.2.55 int ppl_Pointset_Powerset_Double_Box_omega_reduce (ppl_Pointset_Powerset_-Double_Box_t *ph*) [related]

10.86.2.56 int ppl_Pointset_Powerset_Double_Box_pairwise_reduce (ppl_Pointset_Powerset_Double_Box_t *ph*) [related]

10.86.2.57 int ppl_Pointset_Powerset_Double_Box_refine_with_congruence (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.86.2.58 int ppl_Pointset_Powerset_Double_Box_refine_with_congruences (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.86.2.59 int ppl_Pointset_Powerset_Double_Box_refine_with_constraint (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.86.2.60 int ppl_Pointset_Powerset_Double_Box_refine_with_constraints (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.86.2.61 int ppl_Pointset_Powerset_Double_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.86.2.62 int ppl_Pointset_Powerset_Double_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.86.2.63 int ppl_Pointset_Powerset_Double_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Double_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.86.2.64 int ppl_Pointset_Powerset_Double_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.86.2.65 int ppl_Pointset_Powerset_Double_Box_remove_space_dimensions (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.86.2.66 int ppl_Pointset_Powerset_Double_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.67 int ppl_Pointset_Powerset_Double_Box_size (ppl_const_Pointset_Powerset_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.86.2.68 int ppl_Pointset_Powerset_Double_Box_space_dimension (ppl_const_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.86.2.69 int ppl_Pointset_Powerset_Double_Box_strictly_contains_Pointset_Powerset_Double_Box (ppl_const_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.70 int ppl_Pointset_Powerset_Double_Box_time_elapse_assign (ppl_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.71 int ppl_Pointset_Powerset_Double_Box_topological_closure_assign (ppl_Pointset_Powerset_Double_Box_t *ph*) [related]

10.86.2.72 int ppl_Pointset_Powerset_Double_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.86.2.73 int ppl_Pointset_Powerset_Double_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.86.2.74 int ppl_Pointset_Powerset_Double_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.86.2.75 int ppl_Pointset_Powerset_Double_Box_upper_bound_assign (ppl_Pointset_-Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

10.86.2.76 int ppl_Pointset_Powerset_Double_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Double_Box_t *x*, ppl_const_Pointset_Powerset_Double_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.87 ppl_Pointset_Powerset_Float_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Float_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Float_Box_const_iterator (ppl_Pointset_Powerset_Float_Box_-const_iterator_t ∗pit)

- int ppl_new_Pointset_Powerset_Float_Box_const_iterator_from_const_iterator (ppl_Pointset_-Powerset_Float_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Float_Box_const_-iterator_t y)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Float_-Box_t ps, ppl_Pointset_Powerset_Float_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_end (ppl_const_Pointset_Powerset_Float_-Box_t ps, ppl_Pointset_Powerset_Float_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_-Float_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Float_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_increment (ppl_Pointset_Powerset_Float_-Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_decrement (ppl_Pointset_Powerset_Float_-Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_-Float_Box_const_iterator_t ps, ppl_const_Float_Box_t *d)
- int ppl_delete_Pointset_Powerset_Float_Box_const_iterator (ppl_const_Pointset_Powerset_Float_-Box_const_iterator_t psit)

10.87.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Float_Box_tag.

10.87.2 Friends And Related Function Documentation

10.87.2.1 int ppl_delete_Pointset_Powerset_Float_Box_const_iterator (ppl_const_Pointset_Powerset_Float_Box_const_iterator_t *psit*) `[related]`

10.87.2.2 int ppl_new_Pointset_Powerset_Float_Box_const_iterator (ppl_Pointset_Powerset_Float_Box_const_iterator_t * *pit*) `[related]`

10.87.2.3 int ppl_new_Pointset_Powerset_Float_Box_const_iterator_from_const_-iterator (ppl_Pointset_Powerset_Float_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Float_Box_const_iterator_t *y*) `[related]`

10.87.2.4 int ppl_Pointset_Powerset_Float_Box_const_iterator_begin (ppl_const_Pointset_-Powerset_Float_Box_t *ps*, ppl_Pointset_Powerset_Float_Box_const_iterator_t *psit*) `[related]`

10.87.2.5 int ppl_Pointset_Powerset_Float_Box_const_iterator_decrement (ppl_Pointset_Powerset_Float_Box_const_iterator_t *psit*) `[related]`

10.87.2.6 int ppl_Pointset_Powerset_Float_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Float_Box_const_iterator_t *ps*, ppl_const_Float_Box_t ∗ *d*) [related]

10.87.2.7 int ppl_Pointset_Powerset_Float_Box_const_iterator_end (ppl_const_Pointset_Powerset_Float_Box_t *ps*, ppl_Pointset_Powerset_Float_Box_const_iterator_t *psit*) [related]

10.87.2.8 int ppl_Pointset_Powerset_Float_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Float_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Float_Box_const_iterator_t *y*) [related]

10.87.2.9 int ppl_Pointset_Powerset_Float_Box_const_iterator_increment (ppl_Pointset_Powerset_Float_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.88 ppl_Pointset_Powerset_Float_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Float_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Float_Box_iterator (ppl_Pointset_Powerset_Float_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Float_Box_iterator_from_iterator (ppl_Pointset_Powerset_Float_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Float_Box_iterator_t y)
- int ppl_Pointset_Powerset_Float_Box_iterator_begin (ppl_Pointset_Powerset_Float_Box_t ps, ppl_Pointset_Powerset_Float_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_iterator_end (ppl_Pointset_Powerset_Float_Box_t ps, ppl_Pointset_Powerset_Float_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Float_Box_iterator_t x, ppl_const_Pointset_Powerset_Float_Box_iterator_t y)
- int ppl_Pointset_Powerset_Float_Box_iterator_increment (ppl_Pointset_Powerset_Float_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Float_Box_iterator_decrement (ppl_Pointset_Powerset_Float_Box_iterator_t psit)

- int ppl_Pointset_Powerset_Float_Box_iterator_dereference (ppl_const_Pointset_Powerset_Float_-Box_iterator_t ps, ppl_const_Float_Box_t *d)
- int ppl_delete_Pointset_Powerset_Float_Box_iterator (ppl_const_Pointset_Powerset_Float_Box_-iterator_t psit)

10.88.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Float_Box_tag.

10.88.2 Friends And Related Function Documentation

10.88.2.1 int ppl_delete_Pointset_Powerset_Float_Box_iterator (ppl_const_Pointset_Powerset_-Float_Box_iterator_t *psit*) `[related]`

10.88.2.2 int ppl_new_Pointset_Powerset_Float_Box_iterator (ppl_Pointset_Powerset_Float_-Box_iterator_t ∗ *pit*) `[related]`

10.88.2.3 int ppl_new_Pointset_Powerset_Float_Box_iterator_from_iterator (ppl_Pointset_Powerset_Float_Box_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_-Float_Box_iterator_t *y*) `[related]`

10.88.2.4 int ppl_Pointset_Powerset_Float_Box_iterator_begin (ppl_Pointset_-Powerset_Float_Box_t *ps*, ppl_Pointset_Powerset_Float_Box_iterator_t *psit*) `[related]`

10.88.2.5 int ppl_Pointset_Powerset_Float_Box_iterator_decrement (ppl_Pointset_Powerset_Float_Box_iterator_t *psit*) `[related]`

10.88.2.6 int ppl_Pointset_Powerset_Float_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Float_Box_iterator_t *ps*, ppl_const_Float_Box_t ∗ *d*) `[related]`

10.88.2.7 int ppl_Pointset_Powerset_Float_Box_iterator_end (ppl_Pointset_Powerset_Float_Box_t *ps*, ppl_Pointset_Powerset_Float_Box_iterator_t *psit*) `[related]`

10.88.2.8 int ppl_Pointset_Powerset_Float_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Float_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Float_Box_iterator_t *y*) [related]

10.88.2.9 int ppl_Pointset_Powerset_Float_Box_iterator_increment (ppl_Pointset_Powerset_Float_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.89 ppl_Pointset_Powerset_Float_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Float_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_new_Pointset_Powerset_Float_Box_from_space_dimension (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Float_Box_from_Pointset_Powerset_Float_Box (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_new_Pointset_Powerset_Float_Box_from_Float_Box (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Float_Box_t ph)
- int ppl_new_Pointset_Powerset_Float_Box_from_Pointset_Powerset_Float_Box_with_complexity (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Pointset_Powerset_Float_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Float_Box_from_Float_Box_with_complexity (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Float_Box_from_Constraint_System (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Float_Box_from_Congruence_System (ppl_Pointset_Powerset_Float_Box_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Float_Box_space_dimension (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Float_Box_affine_dimension (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Float_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Float_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Float_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_Float_Box_is_empty (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_is_universe (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_is_bounded (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_contains_integer_point (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_is_discrete (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_topological_closure_assign (ppl_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_pairwise_reduce (ppl_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_omega_reduce (ppl_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_bounds_from_above (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Float_Box_bounds_from_below (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Float_Box_maximize (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Float_Box_minimize (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Float_Box_maximize_with_point (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Float_Box_minimize_with_point (ppl_const_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Float_Box_contains_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_strictly_contains_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_is_disjoint_from_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_geometrically_covers_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_geometrically_equals_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_equals_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_OK (ppl_const_Pointset_Powerset_Float_Box_t ph)
- int ppl_Pointset_Powerset_Float_Box_add_constraint (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Float_Box_add_congruence (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Float_Box_add_constraints (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Float_Box_add_congruences (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Float_Box_refine_with_constraint (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Float_Box_refine_with_congruence (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_Float_Box_refine_with_constraints (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Float_Box_refine_with_congruences (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Float_Box_intersection_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_upper_bound_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_difference_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_concatenate_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_time_elapse_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Float_Box_t x, ppl_const_Pointset_Powerset_Float_Box_t y)
- int ppl_Pointset_Powerset_Float_Box_constrains (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Float_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Float_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Float_Box_affine_image (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_affine_preimage (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_bounded_affine_image (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_generalized_affine_image (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Float_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Float_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Float_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Float_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Float_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Float_Box_remove_space_dimensions (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_Pointset_Powerset_Float_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Float_Box_expand_space_dimension (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Float_Box_fold_space_dimensions (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Float_Box_map_space_dimensions (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Float_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Float_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Float_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Float_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Float_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Float_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Float_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Float_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Float_Box_size (ppl_const_Pointset_Powerset_Float_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Float_Box_add_disjunct (ppl_Pointset_Powerset_Float_Box_t ps, ppl_const_Float_Box_t d)
- int ppl_Pointset_Powerset_Float_Box_drop_disjunct (ppl_Pointset_Powerset_Float_Box_t ps, ppl_const_Pointset_Powerset_Float_Box_iterator_t cit, ppl_Pointset_Powerset_Float_Box_iterator_t it)
- int ppl_Pointset_Powerset_Float_Box_drop_disjuncts (ppl_Pointset_Powerset_Float_Box_t ps, ppl_const_Pointset_Powerset_Float_Box_iterator_t first, ppl_const_Pointset_Powerset_Float_Box_iterator_t last)

10.89.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Float_Box_tag.

10.89.2 Friends And Related Function Documentation

10.89.2.1 int ppl_delete_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *ph*) `[related]`

10.89.2.2 int ppl_new_Pointset_Powerset_Float_Box_from_Congruence_System (ppl_Pointset_Powerset_Float_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.89.2.3 int ppl_new_Pointset_Powerset_Float_Box_from_Constraint_System (ppl_Pointset_Powerset_Float_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.89.2.4 int ppl_new_Pointset_Powerset_Float_Box_from_Float_Box (ppl_Pointset_Powerset_Float_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.89.2.5 int ppl_new_Pointset_Powerset_Float_Box_from_Float_Box_with_complexity (ppl_Pointset_Powerset_Float_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.89.2.6 int ppl_new_Pointset_Powerset_Float_Box_from_Pointset_Powerset_Float_Box (ppl_Pointset_Powerset_Float_Box_t * *pph*, ppl_const_Pointset_Powerset_Float_Box_t *ph*) [related]

10.89.2.7 int ppl_new_Pointset_Powerset_Float_Box_from_Pointset_Powerset_Float_Box_with_complexity (ppl_Pointset_Powerset_Float_Box_t * *pph*, ppl_const_Pointset_Powerset_Float_Box_t *ph*, int *complexity*) [related]

10.89.2.8 int ppl_new_Pointset_Powerset_Float_Box_from_space_dimension (ppl_Pointset_Powerset_Float_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.89.2.9 int ppl_Pointset_Powerset_Float_Box_add_congruence (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.89.2.10 int ppl_Pointset_Powerset_Float_Box_add_congruences (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.89.2.11 int ppl_Pointset_Powerset_Float_Box_add_constraint (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.89.2.12 int ppl_Pointset_Powerset_Float_Box_add_constraints (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.89.2.13 int ppl_Pointset_Powerset_Float_Box_add_disjunct (ppl_Pointset_Powerset_Float_Box_t *ps*, ppl_const_Float_Box_t *d*) [related]

10.89.2.14 int ppl_Pointset_Powerset_Float_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *d*) [related]

10.89.2.15 int ppl_Pointset_Powerset_Float_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *d*) [related]

10.89.2.16 int ppl_Pointset_Powerset_Float_Box_affine_dimension (ppl_const_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.89.2.17 int ppl_Pointset_Powerset_Float_Box_affine_image (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.89.2.18 int ppl_Pointset_Powerset_Float_Box_affine_preimage (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.89.2.19 int ppl_Pointset_Powerset_Float_Box_bounded_affine_image (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.89.2.20 int ppl_Pointset_Powerset_Float_Box_bounded_affine_preimage (ppl_Pointset_-Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.89.2.21 int ppl_Pointset_Powerset_Float_Box_bounds_from_above (ppl_const_-Pointset_Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.89.2.22 int ppl_Pointset_Powerset_Float_Box_bounds_from_below (ppl_const_-Pointset_Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.89.2.23 int ppl_Pointset_Powerset_Float_Box_concatenate_assign (ppl_Pointset_-Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.24 int ppl_Pointset_Powerset_Float_Box_constrains (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*) [related]

10.89.2.25 int ppl_Pointset_Powerset_Float_Box_contains_integer_point (ppl_const_Pointset_Powerset_Float_Box_t *ph*) [related]

10.89.2.26 int ppl_Pointset_Powerset_Float_Box_contains_Pointset_Powerset_Float_Box (ppl_-const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.27 int ppl_Pointset_Powerset_Float_Box_difference_assign (ppl_Pointset_-Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.28 int ppl_Pointset_Powerset_Float_Box_drop_disjunct (ppl_Pointset_Powerset_Float_Box_t *ps*, ppl_const_Pointset_Powerset_Float_Box_iterator_t *cit*, ppl_Pointset_Powerset_Float_Box_iterator_t *it*) [related]

10.89.2.29 int ppl_Pointset_Powerset_Float_Box_drop_disjuncts (ppl_Pointset_Powerset_Float_Box_t *ps*, ppl_const_Pointset_Powerset_Float_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Float_Box_iterator_t *last*) [related]

10.89.2.30 int ppl_Pointset_Powerset_Float_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Float_Box_t *ph*, int *complexity*) [related]

10.89.2.31 int ppl_Pointset_Powerset_Float_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.89.2.32 int ppl_Pointset_Powerset_Float_Box_equals_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.33 int ppl_Pointset_Powerset_Float_Box_expand_space_dimension (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.89.2.34 int ppl_Pointset_Powerset_Float_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Float_Box_t *ps*, size_t * *sz*) [related]

10.89.2.35 int ppl_Pointset_Powerset_Float_Box_fold_space_dimensions (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.89.2.36 int ppl_Pointset_Powerset_Float_Box_generalized_affine_image (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.89.2.37 int ppl_Pointset_Powerset_Float_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.89.2.38 int ppl_Pointset_Powerset_Float_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.89.2.39 int ppl_Pointset_Powerset_Float_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.89.2.40 int ppl_Pointset_Powerset_Float_Box_geometrically_covers_Pointset_-Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.41 int ppl_Pointset_Powerset_Float_Box_geometrically_equals_Pointset_-Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.42 int ppl_Pointset_Powerset_Float_Box_intersection_assign (ppl_Pointset_-Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.43 int ppl_Pointset_Powerset_Float_Box_is_bounded (ppl_const_Pointset_Powerset_-Float_Box_t *ph*) [related]

10.89.2.44 int ppl_Pointset_Powerset_Float_Box_is_discrete (ppl_const_Pointset_Powerset_-Float_Box_t *ph*) [related]

10.89.2.45 int ppl_Pointset_Powerset_Float_Box_is_disjoint_from_Pointset_-Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.46 int ppl_Pointset_Powerset_Float_Box_is_empty (ppl_const_Pointset_Powerset_Float_-Box_t *ph*) [related]

10.89.2.47 int ppl_Pointset_Powerset_Float_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Float_Box_t *ph*) [related]

10.89.2.48 int ppl_Pointset_Powerset_Float_Box_is_universe (ppl_const_Pointset_Powerset_-Float_Box_t *ph*) [related]

10.89.2.49 int ppl_Pointset_Powerset_Float_Box_map_space_dimensions (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.89.2.50 int ppl_Pointset_Powerset_Float_Box_maximize (ppl_const_Pointset_Powerset_-Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.89.2.51 int ppl_Pointset_Powerset_Float_Box_maximize_with_point (ppl_const_Pointset_-Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.89.2.52 int ppl_Pointset_Powerset_Float_Box_minimize (ppl_const_Pointset_Powerset_-Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.89.2.53 int ppl_Pointset_Powerset_Float_Box_minimize_with_point (ppl_const_Pointset_-Powerset_Float_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.89.2.54 int ppl_Pointset_Powerset_Float_Box_OK (ppl_const_Pointset_Powerset_Float_Box_t *ph*) [related]

10.89.2.55 int ppl_Pointset_Powerset_Float_Box_omega_reduce (ppl_Pointset_Powerset_Float_-Box_t *ph*) [related]

10.89.2.56 int ppl_Pointset_Powerset_Float_Box_pairwise_reduce (ppl_Pointset_Powerset_-Float_Box_t *ph*) [related]

10.89.2.57 int ppl_Pointset_Powerset_Float_Box_refine_with_congruence (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.89.2.58 int ppl_Pointset_Powerset_Float_Box_refine_with_congruences (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.89.2.59 int ppl_Pointset_Powerset_Float_Box_refine_with_constraint (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.89.2.60 int ppl_Pointset_Powerset_Float_Box_refine_with_constraints (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.89.2.61 int ppl_Pointset_Powerset_Float_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.89.2.62 int ppl_Pointset_Powerset_Float_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.89.2.63 int ppl_Pointset_Powerset_Float_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Float_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.89.2.64 int ppl_Pointset_Powerset_Float_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *d*) [related]

10.89.2.65 int ppl_Pointset_Powerset_Float_Box_remove_space_dimensions (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.89.2.66 int ppl_Pointset_Powerset_Float_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.67 int ppl_Pointset_Powerset_Float_Box_size (ppl_const_Pointset_Powerset_Float_Box_t *ps*, size_t ∗ *sz*) [related]

10.89.2.68 int ppl_Pointset_Powerset_Float_Box_space_dimension (ppl_const_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.89.2.69 int ppl_Pointset_Powerset_Float_Box_strictly_contains_Pointset_Powerset_Float_Box (ppl_const_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.70 int ppl_Pointset_Powerset_Float_Box_time_elapse_assign (ppl_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.71 int ppl_Pointset_Powerset_Float_Box_topological_closure_assign (ppl_Pointset_Powerset_Float_Box_t *ph*) [related]

10.89.2.72 int ppl_Pointset_Powerset_Float_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Float_Box_t *ps*, size_t ∗ *sz*) [related]

10.89.2.73 int ppl_Pointset_Powerset_Float_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *var*) [related]

10.89.2.74 int ppl_Pointset_Powerset_Float_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Float_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.89.2.75 int ppl_Pointset_Powerset_Float_Box_upper_bound_assign (ppl_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

10.89.2.76 int ppl_Pointset_Powerset_Float_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Float_Box_t *x*, ppl_const_Pointset_Powerset_Float_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.90 ppl_Pointset_Powerset_Grid_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Grid_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Grid_const_iterator (ppl_Pointset_Powerset_Grid_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Grid_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Grid_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Grid_const_iterator_t y)
- int ppl_Pointset_Powerset_Grid_const_iterator_begin (ppl_const_Pointset_Powerset_Grid_t ps, ppl_Pointset_Powerset_Grid_const_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_const_iterator_end (ppl_const_Pointset_Powerset_Grid_t ps, ppl_Pointset_Powerset_Grid_const_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_const_iterator_equal_test (ppl_const_Pointset_Powerset_Grid_const_iterator_t x, ppl_const_Pointset_Powerset_Grid_const_iterator_t y)
- int ppl_Pointset_Powerset_Grid_const_iterator_increment (ppl_Pointset_Powerset_Grid_const_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_const_iterator_decrement (ppl_Pointset_Powerset_Grid_const_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_const_iterator_dereference (ppl_const_Pointset_Powerset_Grid_const_iterator_t ps, ppl_const_Grid_t ∗d)
- int ppl_delete_Pointset_Powerset_Grid_const_iterator (ppl_const_Pointset_Powerset_Grid_const_iterator_t psit)

10.90.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Grid_tag.

10.90.2 Friends And Related Function Documentation

10.90.2.1 int ppl_delete_Pointset_Powerset_Grid_const_iterator (ppl_const_Pointset_Powerset_Grid_const_iterator_t *psit*) `[related]`

10.90.2.2 int ppl_new_Pointset_Powerset_Grid_const_iterator (ppl_Pointset_Powerset_Grid_const_iterator_t ∗ *pit*) `[related]`

10.90.2.3 int ppl_new_Pointset_Powerset_Grid_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Grid_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Grid_const_iterator_t *y*) `[related]`

10.90.2.4 int ppl_Pointset_Powerset_Grid_const_iterator_begin (ppl_const_Pointset_-Powerset_Grid_t *ps*, ppl_Pointset_Powerset_Grid_const_iterator_t *psit*) [related]

10.90.2.5 int ppl_Pointset_Powerset_Grid_const_iterator_decrement (ppl_Pointset_Powerset_Grid_const_iterator_t *psit*) [related]

10.90.2.6 int ppl_Pointset_Powerset_Grid_const_iterator_dereference (ppl_const_-Pointset_Powerset_Grid_const_iterator_t *ps*, ppl_const_Grid_t ∗ *d*) [related]

10.90.2.7 int ppl_Pointset_Powerset_Grid_const_iterator_end (ppl_const_Pointset_-Powerset_Grid_t *ps*, ppl_Pointset_Powerset_Grid_const_iterator_t *psit*) [related]

10.90.2.8 int ppl_Pointset_Powerset_Grid_const_iterator_equal_test (ppl_const_Pointset_-Powerset_Grid_const_iterator_t *x*, ppl_const_Pointset_Powerset_Grid_const_iterator_t *y*) [related]

10.90.2.9 int ppl_Pointset_Powerset_Grid_const_iterator_increment (ppl_Pointset_Powerset_Grid_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.91 ppl_Pointset_Powerset_Grid_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Grid_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Grid_iterator (ppl_Pointset_Powerset_Grid_iterator_t ∗pit)

- int ppl_new_Pointset_Powerset_Grid_iterator_from_iterator (ppl_Pointset_Powerset_Grid_-iterator_t *px, ppl_const_Pointset_Powerset_Grid_iterator_t y)
- int ppl_Pointset_Powerset_Grid_iterator_begin (ppl_Pointset_Powerset_Grid_t ps, ppl_Pointset_-Powerset_Grid_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_iterator_end (ppl_Pointset_Powerset_Grid_t ps, ppl_Pointset_-Powerset_Grid_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_iterator_equal_test (ppl_const_Pointset_Powerset_Grid_iterator_-t x, ppl_const_Pointset_Powerset_Grid_iterator_t y)
- int ppl_Pointset_Powerset_Grid_iterator_increment (ppl_Pointset_Powerset_Grid_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_iterator_decrement (ppl_Pointset_Powerset_Grid_iterator_t psit)
- int ppl_Pointset_Powerset_Grid_iterator_dereference (ppl_const_Pointset_Powerset_Grid_-iterator_t ps, ppl_const_Grid_t *d)
- int ppl_delete_Pointset_Powerset_Grid_iterator (ppl_const_Pointset_Powerset_Grid_iterator_t psit)

10.91.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Grid_tag.

10.91.2 Friends And Related Function Documentation

10.91.2.1 int ppl_delete_Pointset_Powerset_Grid_iterator (ppl_const_Pointset_Powerset_Grid_-iterator_t *psit*) [related]

10.91.2.2 int ppl_new_Pointset_Powerset_Grid_iterator (ppl_Pointset_Powerset_Grid_iterator_t * *pit*) [related]

10.91.2.3 int ppl_new_Pointset_Powerset_Grid_iterator_from_iterator (ppl_Pointset_-Powerset_Grid_iterator_t * *px*, ppl_const_Pointset_Powerset_Grid_iterator_t *y*) [related]

10.91.2.4 int ppl_Pointset_Powerset_Grid_iterator_begin (ppl_Pointset_Powerset_Grid_t *ps*, ppl_Pointset_Powerset_Grid_iterator_t *psit*) [related]

10.91.2.5 int ppl_Pointset_Powerset_Grid_iterator_decrement (ppl_Pointset_Powerset_Grid_-iterator_t *psit*) [related]

10.91.2.6 int ppl_Pointset_Powerset_Grid_iterator_dereference (ppl_const_Pointset_Powerset_Grid_iterator_t *ps*, ppl_const_Grid_t ∗ *d*) [related]

10.91.2.7 int ppl_Pointset_Powerset_Grid_iterator_end (ppl_Pointset_Powerset_Grid_t *ps*, ppl_Pointset_Powerset_Grid_iterator_t *psit*) [related]

10.91.2.8 int ppl_Pointset_Powerset_Grid_iterator_equal_test (ppl_const_Pointset_Powerset_Grid_iterator_t *x*, ppl_const_Pointset_Powerset_Grid_iterator_t *y*) [related]

10.91.2.9 int ppl_Pointset_Powerset_Grid_iterator_increment (ppl_Pointset_Powerset_Grid_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.92 ppl_Pointset_Powerset_Grid_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Grid_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_new_Pointset_Powerset_Grid_from_space_dimension (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Grid_from_Pointset_Powerset_Grid (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_new_Pointset_Powerset_Grid_from_Grid (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_const_Grid_t ph)
- int ppl_new_Pointset_Powerset_Grid_from_Pointset_Powerset_Grid_with_complexity (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_const_Pointset_Powerset_Grid_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Grid_from_Grid_with_complexity (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Grid_from_Constraint_System (ppl_Pointset_Powerset_Grid_t ∗pph, ppl_const_Constraint_System_t cs)

- int ppl_new_Pointset_Powerset_Grid_from_Congruence_System (ppl_Pointset_Powerset_Grid_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Grid_space_dimension (ppl_const_Pointset_Powerset_Grid_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Grid_affine_dimension (ppl_const_Pointset_Powerset_Grid_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Grid_relation_with_Constraint (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Grid_relation_with_Generator (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Grid_relation_with_Congruence (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Grid_is_empty (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_is_universe (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_is_bounded (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_contains_integer_point (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_is_topologically_closed (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_is_discrete (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_topological_closure_assign (ppl_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_pairwise_reduce (ppl_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_omega_reduce (ppl_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_bounds_from_above (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Grid_bounds_from_below (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Grid_maximize (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Grid_minimize (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Grid_maximize_with_point (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Grid_minimize_with_point (ppl_const_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Grid_contains_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_strictly_contains_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_is_disjoint_from_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_geometrically_covers_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_geometrically_equals_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_equals_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_OK (ppl_const_Pointset_Powerset_Grid_t ph)
- int ppl_Pointset_Powerset_Grid_add_constraint (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Grid_add_congruence (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_Grid_add_constraints (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Grid_add_congruences (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Grid_refine_with_constraint (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Grid_refine_with_congruence (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Grid_refine_with_constraints (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Grid_refine_with_congruences (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Grid_intersection_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_upper_bound_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_difference_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_concatenate_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_time_elapse_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_simplify_using_context_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_constrains (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Grid_unconstrain_space_dimension (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Grid_unconstrain_space_dimensions (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Grid_affine_image (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_affine_preimage (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_bounded_affine_image (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_bounded_affine_preimage (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_generalized_affine_image (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_generalized_affine_preimage (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Grid_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Pointset_Powerset_Grid_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Grid_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Grid_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Grid_add_space_dimensions_and_project (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Grid_remove_space_dimensions (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Grid_remove_higher_space_dimensions (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Grid_expand_space_dimension (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Grid_fold_space_dimensions (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Grid_map_space_dimensions (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Grid_drop_some_non_integer_points (ppl_Pointset_Powerset_Grid_t ph, int complexity)
- int ppl_Pointset_Powerset_Grid_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Grid_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Grid_external_memory_in_bytes (ppl_const_Pointset_Powerset_Grid_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Grid_total_memory_in_bytes (ppl_const_Pointset_Powerset_Grid_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Grid_size (ppl_const_Pointset_Powerset_Grid_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Grid_add_disjunct (ppl_Pointset_Powerset_Grid_t ps, ppl_const_Grid_t d)
- int ppl_Pointset_Powerset_Grid_drop_disjunct (ppl_Pointset_Powerset_Grid_t ps, ppl_const_Pointset_Powerset_Grid_iterator_t cit, ppl_Pointset_Powerset_Grid_iterator_t it)
- int ppl_Pointset_Powerset_Grid_drop_disjuncts (ppl_Pointset_Powerset_Grid_t ps, ppl_const_Pointset_Powerset_Grid_iterator_t first, ppl_const_Pointset_Powerset_Grid_iterator_t last)
- int ppl_Pointset_Powerset_Grid_BHZ03_Grid_congruence_widening_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_BHZ03_Grid_generator_widening_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y)
- int ppl_Pointset_Powerset_Grid_BGP99_congruence_extrapolation_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y, int disjuncts)
- int ppl_Pointset_Powerset_Grid_BGP99_generator_extrapolation_assign (ppl_Pointset_Powerset_Grid_t x, ppl_const_Pointset_Powerset_Grid_t y, int disjuncts)

10.92.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Grid_tag.

10.92.2 Friends And Related Function Documentation

10.92.2.1 int ppl_delete_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *ph*) `[related]`

10.92.2.2 int ppl_new_Pointset_Powerset_Grid_from_Congruence_System (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.92.2.3 int ppl_new_Pointset_Powerset_Grid_from_Constraint_System (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.92.2.4 int ppl_new_Pointset_Powerset_Grid_from_Grid (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Grid_t *ph*) [related]

10.92.2.5 int ppl_new_Pointset_Powerset_Grid_from_Grid_with_complexity (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.92.2.6 int ppl_new_Pointset_Powerset_Grid_from_Pointset_Powerset_Grid (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.7 int ppl_new_Pointset_Powerset_Grid_from_Pointset_Powerset_Grid_with_complexity (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_const_Pointset_Powerset_Grid_t *ph*, int *complexity*) [related]

10.92.2.8 int ppl_new_Pointset_Powerset_Grid_from_space_dimension (ppl_Pointset_Powerset_Grid_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.92.2.9 int ppl_Pointset_Powerset_Grid_add_congruence (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.92.2.10 int ppl_Pointset_Powerset_Grid_add_congruences (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.92.2.11 int ppl_Pointset_Powerset_Grid_add_constraint (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.92.2.12 int ppl_Pointset_Powerset_Grid_add_constraints (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.92.2.13 int ppl_Pointset_Powerset_Grid_add_disjunct (ppl_Pointset_Powerset_Grid_t *ps*, ppl_const_Grid_t *d*) [related]

10.92.2.14 int ppl_Pointset_Powerset_Grid_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.92.2.15 int ppl_Pointset_Powerset_Grid_add_space_dimensions_and_project (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.92.2.16 int ppl_Pointset_Powerset_Grid_affine_dimension (ppl_const_Pointset_Powerset_-Grid_t *ph*, ppl_dimension_type * *m*) [related]

10.92.2.17 int ppl_Pointset_Powerset_Grid_affine_image (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.92.2.18 int ppl_Pointset_Powerset_Grid_affine_preimage (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.92.2.19 int ppl_Pointset_Powerset_Grid_BGP99_congruence_extrapolation_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*, int *disjuncts*) [related]

10.92.2.20 int ppl_Pointset_Powerset_Grid_BGP99_generator_extrapolation_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*, int *disjuncts*) [related]

10.92.2.21 int ppl_Pointset_Powerset_Grid_BHZ03_Grid_congruence_widening_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.22 int ppl_Pointset_Powerset_Grid_BHZ03_Grid_generator_widening_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.23 int ppl_Pointset_Powerset_Grid_bounded_affine_image (ppl_Pointset_Powerset_-Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.92.2.24 int ppl_Pointset_Powerset_Grid_bounded_affine_preimage (ppl_Pointset_-Powerset_Grid_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.92.2.25 int ppl_Pointset_Powerset_Grid_bounds_from_above (ppl_const_-Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.92.2.26 int ppl_Pointset_Powerset_Grid_bounds_from_below (ppl_const_-Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.92.2.27 int ppl_Pointset_Powerset_Grid_concatenate_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.28 int ppl_Pointset_Powerset_Grid_constrains (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.92.2.29 int ppl_Pointset_Powerset_Grid_contains_integer_point (ppl_const_Pointset_-Powerset_Grid_t *ph*) [related]

10.92.2.30 int ppl_Pointset_Powerset_Grid_contains_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.31 int ppl_Pointset_Powerset_Grid_difference_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.32 int ppl_Pointset_Powerset_Grid_drop_disjunct (ppl_Pointset_-Powerset_Grid_t *ps*, ppl_const_Pointset_Powerset_Grid_iterator_t *cit*, ppl_Pointset_Powerset_Grid_iterator_t *it*) [related]

10.92.2.33 int ppl_Pointset_Powerset_Grid_drop_disjuncts (ppl_Pointset_-Powerset_Grid_t *ps*, ppl_const_Pointset_Powerset_Grid_iterator_t *first*, ppl_const_Pointset_Powerset_Grid_iterator_t *last*) [related]

10.92.2.34 int ppl_Pointset_Powerset_Grid_drop_some_non_integer_points (ppl_Pointset_Powerset_Grid_t *ph*, int *complexity*) [related]

10.92.2.35 int ppl_Pointset_Powerset_Grid_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.92.2.36 int ppl_Pointset_Powerset_Grid_equals_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) `[related]`

10.92.2.37 int ppl_Pointset_Powerset_Grid_expand_space_dimension (ppl_Pointset_-Powerset_Grid_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.92.2.38 int ppl_Pointset_Powerset_Grid_external_memory_in_bytes (ppl_const_Pointset_Powerset_Grid_t *ps*, size_t ∗ *sz*) `[related]`

10.92.2.39 int ppl_Pointset_Powerset_Grid_fold_space_dimensions (ppl_Pointset_Powerset_-Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.92.2.40 int ppl_Pointset_Powerset_Grid_generalized_affine_image (ppl_Pointset_Powerset_-Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.92.2.41 int ppl_Pointset_Powerset_Grid_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.92.2.42 int ppl_Pointset_Powerset_Grid_generalized_affine_preimage (ppl_Pointset_-Powerset_Grid_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.92.2.43 int ppl_Pointset_Powerset_Grid_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.92.2.44 int ppl_Pointset_Powerset_Grid_geometrically_covers_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.45 int ppl_Pointset_Powerset_Grid_geometrically_equals_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.46 int ppl_Pointset_Powerset_Grid_intersection_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.47 int ppl_Pointset_Powerset_Grid_is_bounded (ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.48 int ppl_Pointset_Powerset_Grid_is_discrete (ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.49 int ppl_Pointset_Powerset_Grid_is_disjoint_from_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.50 int ppl_Pointset_Powerset_Grid_is_empty (ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.51 int ppl_Pointset_Powerset_Grid_is_topologically_closed (ppl_const_Pointset_-Powerset_Grid_t *ph*) [related]

10.92.2.52 int ppl_Pointset_Powerset_Grid_is_universe (ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.53 int ppl_Pointset_Powerset_Grid_map_space_dimensions (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.92.2.54 int ppl_Pointset_Powerset_Grid_maximize (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.92.2.55 int ppl_Pointset_Powerset_Grid_maximize_with_point (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.92.2.56 int ppl_Pointset_Powerset_Grid_minimize (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.92.2.57 int ppl_Pointset_Powerset_Grid_minimize_with_point (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.92.2.58 int ppl_Pointset_Powerset_Grid_OK (ppl_const_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.59 int ppl_Pointset_Powerset_Grid_omega_reduce (ppl_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.60 int ppl_Pointset_Powerset_Grid_pairwise_reduce (ppl_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.61 int ppl_Pointset_Powerset_Grid_refine_with_congruence (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.92.2.62 int ppl_Pointset_Powerset_Grid_refine_with_congruences (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.92.2.63 int ppl_Pointset_Powerset_Grid_refine_with_constraint (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.92.2.64 int ppl_Pointset_Powerset_Grid_refine_with_constraints (ppl_Pointset_Powerset_Grid_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.92.2.65 int ppl_Pointset_Powerset_Grid_relation_with_Congruence (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Congruence_t *c*) [related]

10.92.2.66 int ppl_Pointset_Powerset_Grid_relation_with_Constraint (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Constraint_t *c*) [related]

10.92.2.67 int ppl_Pointset_Powerset_Grid_relation_with_Generator (ppl_const_Pointset_Powerset_Grid_t *ph*, ppl_const_Generator_t *c*) [related]

10.92.2.68 int ppl_Pointset_Powerset_Grid_remove_higher_space_dimensions (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *d*) [related]

10.92.2.69 int ppl_Pointset_Powerset_Grid_remove_space_dimensions (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.92.2.70 int ppl_Pointset_Powerset_Grid_simplify_using_context_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.71 int ppl_Pointset_Powerset_Grid_size (ppl_const_Pointset_Powerset_Grid_t *ps*, size_t * *sz*) [related]

10.92.2.72 int ppl_Pointset_Powerset_Grid_space_dimension (ppl_const_Pointset_Powerset_-Grid_t *ph*, ppl_dimension_type * *m*) [related]

10.92.2.73 int ppl_Pointset_Powerset_Grid_strictly_contains_Pointset_Powerset_Grid (ppl_const_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.74 int ppl_Pointset_Powerset_Grid_time_elapse_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.75 int ppl_Pointset_Powerset_Grid_topological_closure_assign (ppl_Pointset_Powerset_Grid_t *ph*) [related]

10.92.2.76 int ppl_Pointset_Powerset_Grid_total_memory_in_bytes (ppl_const_Pointset_Powerset_Grid_t *ps*, size_t * *sz*) [related]

10.92.2.77 int ppl_Pointset_Powerset_Grid_unconstrain_space_dimension (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *var*) [related]

10.92.2.78 int ppl_Pointset_Powerset_Grid_unconstrain_space_dimensions (ppl_Pointset_Powerset_Grid_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.92.2.79 int ppl_Pointset_Powerset_Grid_upper_bound_assign (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

10.92.2.80 int ppl_Pointset_Powerset_Grid_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Grid_t *x*, ppl_const_Pointset_Powerset_Grid_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.93 ppl_Pointset_Powerset_Int16_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int16_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int16_Box_const_iterator (ppl_Pointset_Powerset_Int16_Box_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Int16_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int16_Box_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int16_Box_t ps, ppl_Pointset_Powerset_Int16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int16_Box_t ps, ppl_Pointset_Powerset_Int16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_increment (ppl_Pointset_Powerset_Int16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t ps, ppl_const_Int16_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Int16_Box_const_iterator (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t psit)

10.93.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int16_Box_tag.

10.93.2 Friends And Related Function Documentation

10.93.2.1 int ppl_delete_Pointset_Powerset_Int16_Box_const_iterator (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t *psit*) [related]

10.93.2.2 int ppl_new_Pointset_Powerset_Int16_Box_const_iterator (ppl_Pointset_Powerset_Int16_Box_const_iterator_t ∗ *pit*) [related]

10.93.2.3 int ppl_new_Pointset_Powerset_Int16_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int16_Box_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t *y*) [related]

10.93.2.4 int ppl_Pointset_Powerset_Int16_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int16_Box_t *ps*, ppl_Pointset_Powerset_Int16_Box_const_iterator_t *psit*) [related]

10.93.2.5 int ppl_Pointset_Powerset_Int16_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int16_Box_const_iterator_t *psit*) [related]

10.93.2.6 int ppl_Pointset_Powerset_Int16_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t *ps*, ppl_const_Int16_Box_t ∗ *d*) [related]

10.93.2.7 int ppl_Pointset_Powerset_Int16_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int16_Box_t *ps*, ppl_Pointset_Powerset_Int16_Box_const_iterator_t *psit*) [related]

10.93.2.8 int ppl_Pointset_Powerset_Int16_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Int16_Box_const_iterator_t *y*) [related]

10.93.2.9 int ppl_Pointset_Powerset_Int16_Box_const_iterator_increment (ppl_Pointset_Powerset_Int16_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.94 ppl_Pointset_Powerset_Int16_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int16_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int16_Box_iterator (ppl_Pointset_Powerset_Int16_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Int16_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int16_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Int16_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int16_Box_iterator_begin (ppl_Pointset_Powerset_Int16_Box_t ps, ppl_Pointset_Powerset_Int16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_iterator_end (ppl_Pointset_Powerset_Int16_Box_t ps, ppl_Pointset_Powerset_Int16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int16_Box_iterator_t x, ppl_const_Pointset_Powerset_Int16_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int16_Box_iterator_increment (ppl_Pointset_Powerset_Int16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_iterator_decrement (ppl_Pointset_Powerset_Int16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int16_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int16_Box_iterator_t ps, ppl_const_Int16_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Int16_Box_iterator (ppl_const_Pointset_Powerset_Int16_Box_iterator_t psit)

10.94.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int16_Box_tag.

10.94.2 Friends And Related Function Documentation

10.94.2.1 int ppl_delete_Pointset_Powerset_Int16_Box_iterator (ppl_const_Pointset_Powerset_Int16_Box_iterator_t *psit*) [related]

10.94.2.2 int ppl_new_Pointset_Powerset_Int16_Box_iterator (ppl_Pointset_Powerset_Int16_Box_iterator_t * *pit*) [related]

10.94.2.3 int ppl_new_Pointset_Powerset_Int16_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int16_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Int16_Box_iterator_t *y*) [related]

10.94.2.4 int ppl_Pointset_Powerset_Int16_Box_iterator_begin (ppl_Pointset_Powerset_Int16_Box_t *ps*, ppl_Pointset_Powerset_Int16_Box_iterator_t *psit*) [related]

10.94.2.5 int ppl_Pointset_Powerset_Int16_Box_iterator_decrement (ppl_Pointset_Powerset_Int16_Box_iterator_t *psit*) [related]

10.94.2.6 int ppl_Pointset_Powerset_Int16_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int16_Box_iterator_t *ps*, ppl_const_Int16_Box_t * *d*) [related]

10.94.2.7 int ppl_Pointset_Powerset_Int16_Box_iterator_end (ppl_Pointset_Powerset_Int16_Box_t *ps*, ppl_Pointset_Powerset_Int16_Box_iterator_t *psit*) [related]

10.94.2.8 int ppl_Pointset_Powerset_Int16_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int16_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Int16_Box_iterator_t *y*) [related]

10.94.2.9 int ppl_Pointset_Powerset_Int16_Box_iterator_increment (ppl_Pointset_Powerset_Int16_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.95 ppl_Pointset_Powerset_Int16_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Int16_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_new_Pointset_Powerset_Int16_Box_from_space_dimension (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Pointset_Powerset_Int16_Box (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Int16_Box (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Pointset_Powerset_Int16_Box_with_complexity (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Pointset_Powerset_Int16_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Int16_Box_with_complexity (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Constraint_System (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Int16_Box_from_Congruence_System (ppl_Pointset_Powerset_Int16_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int16_Box_space_dimension (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Int16_Box_affine_dimension (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Int16_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int16_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Int16_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int16_Box_is_empty (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_is_universe (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_is_bounded (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_is_discrete (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_topological_closure_assign (ppl_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_pairwise_reduce (ppl_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_omega_reduce (ppl_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int16_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le)

- int ppl_Pointset_Powerset_Int16_Box_maximize (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int16_Box_minimize (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int16_Box_maximize_with_point (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int16_Box_minimize_with_point (ppl_const_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int16_Box_contains_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_strictly_contains_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_is_disjoint_from_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_geometrically_covers_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_geometrically_equals_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_equals_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_OK (ppl_const_Pointset_Powerset_Int16_Box_t ph)
- int ppl_Pointset_Powerset_Int16_Box_add_constraint (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int16_Box_add_congruence (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int16_Box_add_constraints (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int16_Box_add_congruences (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int16_Box_refine_with_constraint (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int16_Box_refine_with_congruence (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int16_Box_refine_with_constraints (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int16_Box_refine_with_congruences (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int16_Box_intersection_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_upper_bound_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_difference_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_concatenate_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_time_elapse_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)

- int ppl_Pointset_Powerset_Int16_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int16_Box_t x, ppl_const_Pointset_Powerset_Int16_Box_t y)
- int ppl_Pointset_Powerset_Int16_Box_constrains (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int16_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int16_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int16_Box_affine_image (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_bounded_affine_image (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_generalized_affine_image (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int16_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int16_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int16_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int16_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int16_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int16_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int16_Box_expand_space_dimension (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Int16_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int16_Box_map_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Int16_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int16_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Int16_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int16_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Int16_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int16_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Int16_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int16_Box_t ps, size_t *sz)

- int ppl_Pointset_Powerset_Int16_Box_size (ppl_const_Pointset_Powerset_Int16_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Int16_Box_add_disjunct (ppl_Pointset_Powerset_Int16_Box_t ps, ppl_const_Int16_Box_t d)
- int ppl_Pointset_Powerset_Int16_Box_drop_disjunct (ppl_Pointset_Powerset_Int16_Box_t ps, ppl_const_Pointset_Powerset_Int16_Box_iterator_t cit, ppl_Pointset_Powerset_Int16_Box_iterator_t it)
- int ppl_Pointset_Powerset_Int16_Box_drop_disjuncts (ppl_Pointset_Powerset_Int16_Box_t ps, ppl_const_Pointset_Powerset_Int16_Box_iterator_t first, ppl_const_Pointset_Powerset_Int16_Box_iterator_t last)

10.95.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Int16_Box_tag.

10.95.2 Friends And Related Function Documentation

10.95.2.1 int ppl_delete_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.2 int ppl_new_Pointset_Powerset_Int16_Box_from_Congruence_System (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.95.2.3 int ppl_new_Pointset_Powerset_Int16_Box_from_Constraint_System (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.95.2.4 int ppl_new_Pointset_Powerset_Int16_Box_from_Int16_Box (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.95.2.5 int ppl_new_Pointset_Powerset_Int16_Box_from_Int16_Box_with_complexity (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.95.2.6 int ppl_new_Pointset_Powerset_Int16_Box_from_Pointset_Powerset_Int16_Box (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.7 int ppl_new_Pointset_Powerset_Int16_Box_from_Pointset_Powerset_-Int16_Box_with_complexity (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_const_Pointset_Powerset_Int16_Box_t *ph*, int *complexity*) [related]

10.95.2.8 int ppl_new_Pointset_Powerset_Int16_Box_from_space_dimension (ppl_Pointset_Powerset_Int16_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.95.2.9 int ppl_Pointset_Powerset_Int16_Box_add_congruence (ppl_Pointset_Powerset_Int16_-Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.95.2.10 int ppl_Pointset_Powerset_Int16_Box_add_congruences (ppl_Pointset_-Powerset_Int16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.95.2.11 int ppl_Pointset_Powerset_Int16_Box_add_constraint (ppl_Pointset_Powerset_Int16_-Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.95.2.12 int ppl_Pointset_Powerset_Int16_Box_add_constraints (ppl_Pointset_-Powerset_Int16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.95.2.13 int ppl_Pointset_Powerset_Int16_Box_add_disjunct (ppl_Pointset_Powerset_Int16_-Box_t *ps*, ppl_const_Int16_Box_t *d*) [related]

10.95.2.14 int ppl_Pointset_Powerset_Int16_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.95.2.15 int ppl_Pointset_Powerset_Int16_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.95.2.16 int ppl_Pointset_Powerset_Int16_Box_affine_dimension (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.95.2.17 int ppl_Pointset_Powerset_Int16_Box_affine_image (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.95.2.18 int ppl_Pointset_Powerset_Int16_Box_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.95.2.19 int ppl_Pointset_Powerset_Int16_Box_bounded_affine_image (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.95.2.20 int ppl_Pointset_Powerset_Int16_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.95.2.21 int ppl_Pointset_Powerset_Int16_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.95.2.22 int ppl_Pointset_Powerset_Int16_Box_bounds_from_below (ppl_const_-Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.95.2.23 int ppl_Pointset_Powerset_Int16_Box_concatenate_assign (ppl_Pointset_-Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.24 int ppl_Pointset_Powerset_Int16_Box_constrains (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.95.2.25 int ppl_Pointset_Powerset_Int16_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.26 int ppl_Pointset_Powerset_Int16_Box_contains_Pointset_Powerset_Int16_Box (ppl_-const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.27 int ppl_Pointset_Powerset_Int16_Box_difference_assign (ppl_Pointset_-Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.28 int ppl_Pointset_Powerset_Int16_Box_drop_disjunct (ppl_Pointset_Powerset_-Int16_Box_t *ps*, ppl_const_Pointset_Powerset_Int16_Box_iterator_t *cit*, ppl_Pointset_Powerset_Int16_Box_iterator_t *it*) [related]

10.95.2.29 int ppl_Pointset_Powerset_Int16_Box_drop_disjuncts (ppl_Pointset_Powerset_-Int16_Box_t *ps*, ppl_const_Pointset_Powerset_Int16_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Int16_Box_iterator_t *last*) [related]

10.95.2.30 int ppl_Pointset_Powerset_Int16_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int16_Box_t *ph*, int *complexity*) `[related]`

10.95.2.31 int ppl_Pointset_Powerset_Int16_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) `[related]`

10.95.2.32 int ppl_Pointset_Powerset_Int16_Box_equals_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) `[related]`

10.95.2.33 int ppl_Pointset_Powerset_Int16_Box_expand_space_dimension (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.95.2.34 int ppl_Pointset_Powerset_Int16_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int16_Box_t *ps*, size_t ∗ *sz*) `[related]`

10.95.2.35 int ppl_Pointset_Powerset_Int16_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.95.2.36 int ppl_Pointset_Powerset_Int16_Box_generalized_affine_image (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.95.2.37 int ppl_Pointset_Powerset_Int16_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.95.2.38 int ppl_Pointset_Powerset_Int16_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.95.2.39 int ppl_Pointset_Powerset_Int16_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.95.2.40 int ppl_Pointset_Powerset_Int16_Box_geometrically_covers_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.41 int ppl_Pointset_Powerset_Int16_Box_geometrically_equals_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.42 int ppl_Pointset_Powerset_Int16_Box_intersection_assign (ppl_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.43 int ppl_Pointset_Powerset_Int16_Box_is_bounded (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.44 int ppl_Pointset_Powerset_Int16_Box_is_discrete (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.45 int ppl_Pointset_Powerset_Int16_Box_is_disjoint_from_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.46 int ppl_Pointset_Powerset_Int16_Box_is_empty (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.47 int ppl_Pointset_Powerset_Int16_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.48 int ppl_Pointset_Powerset_Int16_Box_is_universe (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.49 int ppl_Pointset_Powerset_Int16_Box_map_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.95.2.50 int ppl_Pointset_Powerset_Int16_Box_maximize (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.95.2.51 int ppl_Pointset_Powerset_Int16_Box_maximize_with_point (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.95.2.52 int ppl_Pointset_Powerset_Int16_Box_minimize (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.95.2.53 int ppl_Pointset_Powerset_Int16_Box_minimize_with_point (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.95.2.54 int ppl_Pointset_Powerset_Int16_Box_OK (ppl_const_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.55 int ppl_Pointset_Powerset_Int16_Box_omega_reduce (ppl_Pointset_Powerset_Int16_-Box_t *ph*) [related]

10.95.2.56 int ppl_Pointset_Powerset_Int16_Box_pairwise_reduce (ppl_Pointset_Powerset_-Int16_Box_t *ph*) [related]

10.95.2.57 int ppl_Pointset_Powerset_Int16_Box_refine_with_congruence (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.95.2.58 int ppl_Pointset_Powerset_Int16_Box_refine_with_congruences (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.95.2.59 int ppl_Pointset_Powerset_Int16_Box_refine_with_constraint (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.95.2.60 int ppl_Pointset_Powerset_Int16_Box_refine_with_constraints (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.95.2.61 int ppl_Pointset_Powerset_Int16_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.95.2.62 int ppl_Pointset_Powerset_Int16_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.95.2.63 int ppl_Pointset_Powerset_Int16_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.95.2.64 int ppl_Pointset_Powerset_Int16_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.95.2.65 int ppl_Pointset_Powerset_Int16_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.95.2.66 int ppl_Pointset_Powerset_Int16_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.67 int ppl_Pointset_Powerset_Int16_Box_size (ppl_const_Pointset_Powerset_Int16_Box_t *ps*, size_t * *sz*) [related]

10.95.2.68 int ppl_Pointset_Powerset_Int16_Box_space_dimension (ppl_const_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.95.2.69 int ppl_Pointset_Powerset_Int16_Box_strictly_contains_Pointset_Powerset_Int16_Box (ppl_const_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.70 int ppl_Pointset_Powerset_Int16_Box_time_elapse_assign (ppl_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.71 int ppl_Pointset_Powerset_Int16_Box_topological_closure_assign (ppl_Pointset_Powerset_Int16_Box_t *ph*) [related]

10.95.2.72 int ppl_Pointset_Powerset_Int16_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int16_Box_t *ps*, size_t ∗ *sz*) [related]

10.95.2.73 int ppl_Pointset_Powerset_Int16_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.95.2.74 int ppl_Pointset_Powerset_Int16_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.95.2.75 int ppl_Pointset_Powerset_Int16_Box_upper_bound_assign (ppl_Pointset_-Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

10.95.2.76 int ppl_Pointset_Powerset_Int16_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int16_Box_t *x*, ppl_const_Pointset_Powerset_Int16_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.96 ppl_Pointset_Powerset_Int32_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int32_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int32_Box_const_iterator (ppl_Pointset_Powerset_Int32_Box_-const_iterator_t ∗pit)

- int ppl_new_Pointset_Powerset_Int32_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int32_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int32_Box_t ps, ppl_Pointset_Powerset_Int32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int32_Box_t ps, ppl_Pointset_Powerset_Int32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_increment (ppl_Pointset_Powerset_Int32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t ps, ppl_const_Int32_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int32_Box_const_iterator (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t psit)

10.96.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int32_Box_tag.

10.96.2 Friends And Related Function Documentation

10.96.2.1 int ppl_delete_Pointset_Powerset_Int32_Box_const_iterator (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t *psit*) `[related]`

10.96.2.2 int ppl_new_Pointset_Powerset_Int32_Box_const_iterator (ppl_Pointset_Powerset_Int32_Box_const_iterator_t * *pit*) `[related]`

10.96.2.3 int ppl_new_Pointset_Powerset_Int32_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int32_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t *y*) `[related]`

10.96.2.4 int ppl_Pointset_Powerset_Int32_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int32_Box_t *ps*, ppl_Pointset_Powerset_Int32_Box_const_iterator_t *psit*) `[related]`

10.96.2.5 int ppl_Pointset_Powerset_Int32_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int32_Box_const_iterator_t *psit*) `[related]`

10.96.2.6 int ppl_Pointset_Powerset_Int32_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t *ps*, ppl_const_Int32_Box_t ∗ *d*) [related]

10.96.2.7 int ppl_Pointset_Powerset_Int32_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int32_Box_t *ps*, ppl_Pointset_Powerset_Int32_Box_const_iterator_t *psit*) [related]

10.96.2.8 int ppl_Pointset_Powerset_Int32_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Int32_Box_const_iterator_t *y*) [related]

10.96.2.9 int ppl_Pointset_Powerset_Int32_Box_const_iterator_increment (ppl_Pointset_Powerset_Int32_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.97 ppl_Pointset_Powerset_Int32_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int32_Box_iterator (ppl_Pointset_Powerset_Int32_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Int32_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int32_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Int32_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int32_Box_iterator_begin (ppl_Pointset_Powerset_Int32_Box_t ps, ppl_Pointset_Powerset_Int32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_iterator_end (ppl_Pointset_Powerset_Int32_Box_t ps, ppl_Pointset_Powerset_Int32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int32_Box_iterator_t x, ppl_const_Pointset_Powerset_Int32_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int32_Box_iterator_increment (ppl_Pointset_Powerset_Int32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int32_Box_iterator_decrement (ppl_Pointset_Powerset_Int32_Box_iterator_t psit)

- int ppl_Pointset_Powerset_Int32_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int32_-Box_iterator_t ps, ppl_const_Int32_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int32_Box_iterator (ppl_const_Pointset_Powerset_Int32_Box_-iterator_t psit)

10.97.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int32_Box_tag.

10.97.2 Friends And Related Function Documentation

10.97.2.1 int ppl_delete_Pointset_Powerset_Int32_Box_iterator (ppl_const_Pointset_Powerset_-Int32_Box_iterator_t *psit*) [related]

10.97.2.2 int ppl_new_Pointset_Powerset_Int32_Box_iterator (ppl_Pointset_Powerset_Int32_-Box_iterator_t * *pit*) [related]

10.97.2.3 int ppl_new_Pointset_Powerset_Int32_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int32_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_-Int32_Box_iterator_t *y*) [related]

10.97.2.4 int ppl_Pointset_Powerset_Int32_Box_iterator_begin (ppl_Pointset_-Powerset_Int32_Box_t *ps*, ppl_Pointset_Powerset_Int32_Box_iterator_t *psit*) [related]

10.97.2.5 int ppl_Pointset_Powerset_Int32_Box_iterator_decrement (ppl_Pointset_Powerset_Int32_Box_iterator_t *psit*) [related]

10.97.2.6 int ppl_Pointset_Powerset_Int32_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Int32_Box_iterator_t *ps*, ppl_const_Int32_Box_t * *d*) [related]

10.97.2.7 int ppl_Pointset_Powerset_Int32_Box_iterator_end (ppl_Pointset_Powerset_-Int32_Box_t *ps*, ppl_Pointset_Powerset_Int32_Box_iterator_t *psit*) [related]

10.97.2.8 int ppl_Pointset_Powerset_Int32_Box_iterator_equal_test (ppl_const_Pointset_-Powerset_Int32_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Int32_Box_iterator_t *y*) [related]

10.97.2.9 int ppl_Pointset_Powerset_Int32_Box_iterator_increment (ppl_Pointset_Powerset_Int32_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.98 ppl_Pointset_Powerset_Int32_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Int32_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_new_Pointset_Powerset_Int32_Box_from_space_dimension (ppl_Pointset_Powerset_-Int32_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Pointset_Powerset_Int32_Box (ppl_Pointset_-Powerset_Int32_Box_t ∗pph, ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Int32_Box (ppl_Pointset_Powerset_Int32_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Pointset_Powerset_Int32_Box_with_complexity (ppl_Pointset_Powerset_Int32_Box_t ∗pph, ppl_const_Pointset_Powerset_Int32_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Int32_Box_with_complexity (ppl_Pointset_-Powerset_Int32_Box_t ∗pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Constraint_System (ppl_Pointset_Powerset_-Int32_Box_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Int32_Box_from_Congruence_System (ppl_Pointset_Powerset_-Int32_Box_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int32_Box_space_dimension (ppl_const_Pointset_Powerset_Int32_-Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Int32_Box_affine_dimension (ppl_const_Pointset_Powerset_Int32_-Box_t ph, ppl_dimension_type ∗m)

- int ppl_Pointset_Powerset_Int32_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int32_Box_relation_with_Generator (ppl_const_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Int32_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int32_Box_is_empty (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_is_universe (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_is_bounded (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_contains_integer_point (ppl_const_Pointset_Powerset_-Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_is_topologically_closed (ppl_const_Pointset_Powerset_-Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_is_discrete (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_topological_closure_assign (ppl_Pointset_Powerset_Int32_-Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_pairwise_reduce (ppl_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_omega_reduce (ppl_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int32_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int32_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int32_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int32_Box_maximize (ppl_const_Pointset_Powerset_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int32_Box_minimize (ppl_const_Pointset_Powerset_Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int32_Box_maximize_with_point (ppl_const_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int32_Box_minimize_with_point (ppl_const_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int32_Box_contains_Pointset_Powerset_Int32_Box (ppl_const_-Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_strictly_contains_Pointset_Powerset_Int32_Box (ppl_-const_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_is_disjoint_from_Pointset_Powerset_Int32_Box (ppl_-const_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_geometrically_covers_Pointset_Powerset_Int32_Box (ppl_-const_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_geometrically_equals_Pointset_Powerset_Int32_Box (ppl_-const_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_equals_Pointset_Powerset_Int32_Box (ppl_const_Pointset_-Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_OK (ppl_const_Pointset_Powerset_Int32_Box_t ph)
- int ppl_Pointset_Powerset_Int32_Box_add_constraint (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int32_Box_add_congruence (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int32_Box_add_constraints (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_const_Constraint_System_t cs)

- int ppl_Pointset_Powerset_Int32_Box_add_congruences (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int32_Box_refine_with_constraint (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int32_Box_refine_with_congruence (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int32_Box_refine_with_constraints (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int32_Box_refine_with_congruences (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int32_Box_intersection_assign (ppl_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_upper_bound_assign (ppl_Pointset_Powerset_Int32_Box_-t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_difference_assign (ppl_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_concatenate_assign (ppl_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_time_elapse_assign (ppl_Pointset_Powerset_Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_-Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_simplify_using_context_assign (ppl_Pointset_Powerset_-Int32_Box_t x, ppl_const_Pointset_Powerset_Int32_Box_t y)
- int ppl_Pointset_Powerset_Int32_Box_constrains (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_-dimension_type var)
- int ppl_Pointset_Powerset_Int32_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_-Int32_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int32_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_-Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int32_Box_affine_image (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_affine_preimage (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_bounded_affine_image (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_-Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_-Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_generalized_affine_image (ppl_Pointset_Powerset_Int32_-Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_generalized_affine_preimage (ppl_Pointset_Powerset_-Int32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int32_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_-Int32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int32_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_-Powerset_Int32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Pointset_Powerset_Int32_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int32_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int32_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int32_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int32_Box_expand_space_dimension (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Int32_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int32_Box_map_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Int32_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int32_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Int32_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int32_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Int32_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int32_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int32_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int32_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int32_Box_size (ppl_const_Pointset_Powerset_Int32_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int32_Box_add_disjunct (ppl_Pointset_Powerset_Int32_Box_t ps, ppl_const_Int32_Box_t d)
- int ppl_Pointset_Powerset_Int32_Box_drop_disjunct (ppl_Pointset_Powerset_Int32_Box_t ps, ppl_const_Pointset_Powerset_Int32_Box_iterator_t cit, ppl_Pointset_Powerset_Int32_Box_iterator_t it)
- int ppl_Pointset_Powerset_Int32_Box_drop_disjuncts (ppl_Pointset_Powerset_Int32_Box_t ps, ppl_const_Pointset_Powerset_Int32_Box_iterator_t first, ppl_const_Pointset_Powerset_Int32_Box_iterator_t last)

10.98.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Int32_Box_tag.

10.98.2 Friends And Related Function Documentation

10.98.2.1 int ppl_delete_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.2 int ppl_new_Pointset_Powerset_Int32_Box_from_Congruence_System (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.98.2.3 int ppl_new_Pointset_Powerset_Int32_Box_from_Constraint_System (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.98.2.4 int ppl_new_Pointset_Powerset_Int32_Box_from_Int32_Box (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.98.2.5 int ppl_new_Pointset_Powerset_Int32_Box_from_Int32_Box_with_complexity (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.98.2.6 int ppl_new_Pointset_Powerset_Int32_Box_from_Pointset_Powerset_Int32_Box (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.7 int ppl_new_Pointset_Powerset_Int32_Box_from_Pointset_Powerset_Int32_Box_with_complexity (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int32_Box_t *ph*, int *complexity*) [related]

10.98.2.8 int ppl_new_Pointset_Powerset_Int32_Box_from_space_dimension (ppl_Pointset_Powerset_Int32_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.98.2.9 int ppl_Pointset_Powerset_Int32_Box_add_congruence (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.98.2.10 int ppl_Pointset_Powerset_Int32_Box_add_congruences (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.98.2.11 int ppl_Pointset_Powerset_Int32_Box_add_constraint (ppl_Pointset_Powerset_Int32_-Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.98.2.12 int ppl_Pointset_Powerset_Int32_Box_add_constraints (ppl_Pointset_-Powerset_Int32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.98.2.13 int ppl_Pointset_Powerset_Int32_Box_add_disjunct (ppl_Pointset_Powerset_Int32_-Box_t *ps*, ppl_const_Int32_Box_t *d*) `[related]`

10.98.2.14 int ppl_Pointset_Powerset_Int32_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.98.2.15 int ppl_Pointset_Powerset_Int32_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.98.2.16 int ppl_Pointset_Powerset_Int32_Box_affine_dimension (ppl_const_-Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type ∗ *m*) `[related]`

10.98.2.17 int ppl_Pointset_Powerset_Int32_Box_affine_image (ppl_Pointset_Powerset_-Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.98.2.18 int ppl_Pointset_Powerset_Int32_Box_affine_preimage (ppl_Pointset_Powerset_-Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.98.2.19 int ppl_Pointset_Powerset_Int32_Box_bounded_affine_image (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.98.2.20 int ppl_Pointset_Powerset_Int32_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.98.2.21 int ppl_Pointset_Powerset_Int32_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.98.2.22 int ppl_Pointset_Powerset_Int32_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.98.2.23 int ppl_Pointset_Powerset_Int32_Box_concatenate_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.24 int ppl_Pointset_Powerset_Int32_Box_constrains (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.98.2.25 int ppl_Pointset_Powerset_Int32_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.26 int ppl_Pointset_Powerset_Int32_Box_contains_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.27 int ppl_Pointset_Powerset_Int32_Box_difference_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.28 int ppl_Pointset_Powerset_Int32_Box_drop_disjunct (ppl_Pointset_Powerset_Int32_Box_t *ps*, ppl_const_Pointset_Powerset_Int32_Box_iterator_t *cit*, ppl_Pointset_Powerset_Int32_Box_iterator_t *it*) [related]

10.98.2.29 int ppl_Pointset_Powerset_Int32_Box_drop_disjuncts (ppl_Pointset_Powerset_Int32_Box_t *ps*, ppl_const_Pointset_Powerset_Int32_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Int32_Box_iterator_t *last*) [related]

10.98.2.30 int ppl_Pointset_Powerset_Int32_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int32_Box_t *ph*, int *complexity*) [related]

10.98.2.31 int ppl_Pointset_Powerset_Int32_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.98.2.32 int ppl_Pointset_Powerset_Int32_Box_equals_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.33 int ppl_Pointset_Powerset_Int32_Box_expand_space_dimension (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.98.2.34 int ppl_Pointset_Powerset_Int32_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int32_Box_t *ps*, size_t * *sz*) [related]

10.98.2.35 int ppl_Pointset_Powerset_Int32_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.98.2.36 int ppl_Pointset_Powerset_Int32_Box_generalized_affine_image (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.98.2.37 int ppl_Pointset_Powerset_Int32_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.98.2.38 int ppl_Pointset_Powerset_Int32_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.98.2.39 int ppl_Pointset_Powerset_Int32_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.98.2.40 int ppl_Pointset_Powerset_Int32_Box_geometrically_covers_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.41 int ppl_Pointset_Powerset_Int32_Box_geometrically_equals_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.42 int ppl_Pointset_Powerset_Int32_Box_intersection_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.43 int ppl_Pointset_Powerset_Int32_Box_is_bounded (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.44 int ppl_Pointset_Powerset_Int32_Box_is_discrete (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.45 int ppl_Pointset_Powerset_Int32_Box_is_disjoint_from_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.46 int ppl_Pointset_Powerset_Int32_Box_is_empty (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.47 int ppl_Pointset_Powerset_Int32_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.48 int ppl_Pointset_Powerset_Int32_Box_is_universe (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.49 int ppl_Pointset_Powerset_Int32_Box_map_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.98.2.50 int ppl_Pointset_Powerset_Int32_Box_maximize (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.98.2.51 int ppl_Pointset_Powerset_Int32_Box_maximize_with_point (ppl_const_Pointset_-Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.98.2.52 int ppl_Pointset_Powerset_Int32_Box_minimize (ppl_const_Pointset_Powerset_-Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.98.2.53 int ppl_Pointset_Powerset_Int32_Box_minimize_with_point (ppl_const_Pointset_-Powerset_Int32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.98.2.54 int ppl_Pointset_Powerset_Int32_Box_OK (ppl_const_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.55 int ppl_Pointset_Powerset_Int32_Box_omega_reduce (ppl_Pointset_Powerset_Int32_-Box_t *ph*) [related]

10.98.2.56 int ppl_Pointset_Powerset_Int32_Box_pairwise_reduce (ppl_Pointset_Powerset_-Int32_Box_t *ph*) [related]

10.98.2.57 int ppl_Pointset_Powerset_Int32_Box_refine_with_congruence (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.98.2.58 int ppl_Pointset_Powerset_Int32_Box_refine_with_congruences (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.98.2.59 int ppl_Pointset_Powerset_Int32_Box_refine_with_constraint (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.98.2.60 int ppl_Pointset_Powerset_Int32_Box_refine_with_constraints (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.98.2.61 int ppl_Pointset_Powerset_Int32_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.98.2.62 int ppl_Pointset_Powerset_Int32_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.98.2.63 int ppl_Pointset_Powerset_Int32_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.98.2.64 int ppl_Pointset_Powerset_Int32_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.98.2.65 int ppl_Pointset_Powerset_Int32_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.98.2.66 int ppl_Pointset_Powerset_Int32_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.67 int ppl_Pointset_Powerset_Int32_Box_size (ppl_const_Pointset_Powerset_Int32_Box_t *ps*, size_t ∗ *sz*) [related]

10.98.2.68 int ppl_Pointset_Powerset_Int32_Box_space_dimension (ppl_const_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.98.2.69 int ppl_Pointset_Powerset_Int32_Box_strictly_contains_Pointset_Powerset_Int32_Box (ppl_const_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.70 int ppl_Pointset_Powerset_Int32_Box_time_elapse_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.71 int ppl_Pointset_Powerset_Int32_Box_topological_closure_assign (ppl_Pointset_Powerset_Int32_Box_t *ph*) [related]

10.98.2.72 int ppl_Pointset_Powerset_Int32_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int32_Box_t *ps*, size_t ∗ *sz*) [related]

10.98.2.73 int ppl_Pointset_Powerset_Int32_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.98.2.74 int ppl_Pointset_Powerset_Int32_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.98.2.75 int ppl_Pointset_Powerset_Int32_Box_upper_bound_assign (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

10.98.2.76 int ppl_Pointset_Powerset_Int32_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int32_Box_t *x*, ppl_const_Pointset_Powerset_Int32_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.99 ppl_Pointset_Powerset_Int64_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int64_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int64_Box_const_iterator (ppl_Pointset_Powerset_Int64_Box_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Int64_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int64_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int64_Box_t ps, ppl_Pointset_Powerset_Int64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int64_Box_t ps, ppl_Pointset_Powerset_Int64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_increment (ppl_Pointset_Powerset_Int64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t ps, ppl_const_Int64_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int64_Box_const_iterator (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t psit)

10.99.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int64_Box_tag.

10.99.2 Friends And Related Function Documentation

10.99.2.1 int ppl_delete_Pointset_Powerset_Int64_Box_const_iterator (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t *psit*) [related]

10.99.2.2 int ppl_new_Pointset_Powerset_Int64_Box_const_iterator (ppl_Pointset_Powerset_Int64_Box_const_iterator_t $*$ *pit*) [related]

10.99.2.3 int ppl_new_Pointset_Powerset_Int64_Box_const_iterator_from_const_-iterator (ppl_Pointset_Powerset_Int64_Box_const_iterator_t $*$ *px*, ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t *y*) [related]

10.99.2.4 int ppl_Pointset_Powerset_Int64_Box_const_iterator_begin (ppl_const_Pointset_-Powerset_Int64_Box_t *ps*, ppl_Pointset_Powerset_Int64_Box_const_iterator_t *psit*) [related]

10.99.2.5 int ppl_Pointset_Powerset_Int64_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int64_Box_const_iterator_t *psit*) [related]

10.99.2.6 int ppl_Pointset_Powerset_Int64_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t *ps*, ppl_const_Int64_Box_t $*$ *d*) [related]

10.99.2.7 int ppl_Pointset_Powerset_Int64_Box_const_iterator_end (ppl_const_Pointset_-Powerset_Int64_Box_t *ps*, ppl_Pointset_Powerset_Int64_Box_const_iterator_t *psit*) [related]

10.99.2.8 int ppl_Pointset_Powerset_Int64_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Int64_Box_const_iterator_t *y*) [related]

10.99.2.9 int ppl_Pointset_Powerset_Int64_Box_const_iterator_increment (ppl_Pointset_Powerset_Int64_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.100 ppl_Pointset_Powerset_Int64_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int64_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int64_Box_iterator (ppl_Pointset_Powerset_Int64_Box_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Int64_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int64_Box_iterator_t *px, ppl_const_Pointset_Powerset_Int64_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int64_Box_iterator_begin (ppl_Pointset_Powerset_Int64_Box_t ps, ppl_Pointset_Powerset_Int64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_iterator_end (ppl_Pointset_Powerset_Int64_Box_t ps, ppl_Pointset_Powerset_Int64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int64_Box_iterator_t x, ppl_const_Pointset_Powerset_Int64_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int64_Box_iterator_increment (ppl_Pointset_Powerset_Int64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_iterator_decrement (ppl_Pointset_Powerset_Int64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int64_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int64_Box_iterator_t ps, ppl_const_Int64_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int64_Box_iterator (ppl_const_Pointset_Powerset_Int64_Box_iterator_t psit)

10.100.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int64_Box_tag.

10.100.2 Friends And Related Function Documentation

10.100.2.1 int ppl_delete_Pointset_Powerset_Int64_Box_iterator (ppl_const_Pointset_Powerset_Int64_Box_iterator_t *psit*) [related]

10.100.2.2 int ppl_new_Pointset_Powerset_Int64_Box_iterator (ppl_Pointset_Powerset_Int64_Box_iterator_t * *pit*) [related]

10.100.2.3 int ppl_new_Pointset_Powerset_Int64_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int64_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Int64_Box_iterator_t *y*) [related]

10.100.2.4 int ppl_Pointset_Powerset_Int64_Box_iterator_begin (ppl_Pointset_Powerset_Int64_Box_t *ps*, ppl_Pointset_Powerset_Int64_Box_iterator_t *psit*) [related]

10.100.2.5 int ppl_Pointset_Powerset_Int64_Box_iterator_decrement (ppl_Pointset_Powerset_Int64_Box_iterator_t *psit*) [related]

10.100.2.6 int ppl_Pointset_Powerset_Int64_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int64_Box_iterator_t *ps*, ppl_const_Int64_Box_t ∗ *d*) [related]

10.100.2.7 int ppl_Pointset_Powerset_Int64_Box_iterator_end (ppl_Pointset_Powerset_Int64_Box_t *ps*, ppl_Pointset_Powerset_Int64_Box_iterator_t *psit*) [related]

10.100.2.8 int ppl_Pointset_Powerset_Int64_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int64_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Int64_Box_iterator_t *y*) [related]

10.100.2.9 int ppl_Pointset_Powerset_Int64_Box_iterator_increment (ppl_Pointset_Powerset_Int64_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.101 ppl_Pointset_Powerset_Int64_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Int64_Box_tag.

#include <ppl_c.h>

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t ph)

- int ppl_new_Pointset_Powerset_Int64_Box_from_space_dimension (ppl_Pointset_Powerset_-Int64_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Pointset_Powerset_Int64_Box (ppl_Pointset_-Powerset_Int64_Box_t *pph, ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Int64_Box (ppl_Pointset_Powerset_Int64_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Pointset_Powerset_Int64_Box_with_complexity (ppl_Pointset_Powerset_Int64_Box_t *pph, ppl_const_Pointset_Powerset_Int64_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Int64_Box_with_complexity (ppl_Pointset_-Powerset_Int64_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Constraint_System (ppl_Pointset_Powerset_-Int64_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Int64_Box_from_Congruence_System (ppl_Pointset_Powerset_-Int64_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int64_Box_space_dimension (ppl_const_Pointset_Powerset_Int64_-Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Int64_Box_affine_dimension (ppl_const_Pointset_Powerset_Int64_-Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Int64_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_-Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int64_Box_relation_with_Generator (ppl_const_Pointset_Powerset_-Int64_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Int64_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_-Int64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int64_Box_is_empty (ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_is_universe (ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_is_bounded (ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_contains_integer_point (ppl_const_Pointset_Powerset_-Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_is_topologically_closed (ppl_const_Pointset_Powerset_-Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_is_discrete (ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_topological_closure_assign (ppl_Pointset_Powerset_Int64_-Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_pairwise_reduce (ppl_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_omega_reduce (ppl_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int64_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int64_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int64_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int64_Box_maximize (ppl_const_Pointset_Powerset_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Int64_Box_minimize (ppl_const_Pointset_Powerset_Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Int64_Box_maximize_with_point (ppl_const_Pointset_Powerset_-Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int64_Box_minimize_with_point (ppl_const_Pointset_Powerset_-Int64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_Int64_Box_contains_Pointset_Powerset_Int64_Box (ppl_const_-Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_strictly_contains_Pointset_Powerset_Int64_Box (ppl_-const_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_is_disjoint_from_Pointset_Powerset_Int64_Box (ppl_-const_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_geometrically_covers_Pointset_Powerset_Int64_Box (ppl_-const_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_geometrically_equals_Pointset_Powerset_Int64_Box (ppl_-const_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_equals_Pointset_Powerset_Int64_Box (ppl_const_Pointset_-Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_OK (ppl_const_Pointset_Powerset_Int64_Box_t ph)
- int ppl_Pointset_Powerset_Int64_Box_add_constraint (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int64_Box_add_congruence (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int64_Box_add_constraints (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int64_Box_add_congruences (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int64_Box_refine_with_constraint (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int64_Box_refine_with_congruence (ppl_Pointset_Powerset_Int64_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int64_Box_refine_with_constraints (ppl_Pointset_Powerset_Int64_-Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int64_Box_refine_with_congruences (ppl_Pointset_Powerset_Int64_-Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int64_Box_intersection_assign (ppl_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_upper_bound_assign (ppl_Pointset_Powerset_Int64_Box_-t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_difference_assign (ppl_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_concatenate_assign (ppl_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_time_elapse_assign (ppl_Pointset_Powerset_Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_-Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_simplify_using_context_assign (ppl_Pointset_Powerset_-Int64_Box_t x, ppl_const_Pointset_Powerset_Int64_Box_t y)
- int ppl_Pointset_Powerset_Int64_Box_constrains (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_-dimension_type var)
- int ppl_Pointset_Powerset_Int64_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_-Int64_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int64_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_-Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int64_Box_affine_image (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_-dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Int64_Box_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int64_Box_bounded_affine_image (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int64_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int64_Box_generalized_affine_image (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int64_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int64_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int64_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int64_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int64_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int64_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int64_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int64_Box_expand_space_dimension (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Int64_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int64_Box_map_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Int64_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int64_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Int64_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int64_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Int64_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int64_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int64_Box_size (ppl_const_Pointset_Powerset_Int64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int64_Box_add_disjunct (ppl_Pointset_Powerset_Int64_Box_t ps, ppl_const_Int64_Box_t d)
- int ppl_Pointset_Powerset_Int64_Box_drop_disjunct (ppl_Pointset_Powerset_Int64_Box_t ps, ppl_const_Pointset_Powerset_Int64_Box_iterator_t cit, ppl_Pointset_Powerset_Int64_Box_iterator_t it)
- int ppl_Pointset_Powerset_Int64_Box_drop_disjuncts (ppl_Pointset_Powerset_Int64_Box_t ps, ppl_const_Pointset_Powerset_Int64_Box_iterator_t first, ppl_const_Pointset_Powerset_Int64_Box_iterator_t last)

10.101.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Int64_Box_tag.

10.101.2 Friends And Related Function Documentation

10.101.2.1 int ppl_delete_Pointset_Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_-Box_t *ph*) [related]

10.101.2.2 int ppl_new_Pointset_Powerset_Int64_Box_from_Congruence_System (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.101.2.3 int ppl_new_Pointset_Powerset_Int64_Box_from_Constraint_System (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.101.2.4 int ppl_new_Pointset_Powerset_Int64_Box_from_Int64_Box (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.101.2.5 int ppl_new_Pointset_Powerset_Int64_Box_from_Int64_Box_with_complexity (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.101.2.6 int ppl_new_Pointset_Powerset_Int64_Box_from_Pointset_Powerset_Int64_Box (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.7 int ppl_new_Pointset_Powerset_Int64_Box_from_Pointset_Powerset_-Int64_Box_with_complexity (ppl_Pointset_Powerset_Int64_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int64_Box_t *ph*, int *complexity*) [related]

10.101.2.8 int ppl_new_Pointset_Powerset_Int64_Box_from_space_dimension (ppl_Pointset_Powerset_Int64_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.101.2.9 int ppl_Pointset_Powerset_Int64_Box_add_congruence (ppl_-Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.101.2.10 int ppl_Pointset_Powerset_Int64_Box_add_congruences (ppl_Pointset_-Powerset_Int64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.101.2.11 int ppl_Pointset_Powerset_Int64_Box_add_constraint (ppl_-Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.101.2.12 int ppl_Pointset_Powerset_Int64_Box_add_constraints (ppl_Pointset_-Powerset_Int64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.101.2.13 int ppl_Pointset_Powerset_Int64_Box_add_disjunct (ppl_Pointset_Powerset_Int64_-Box_t *ps*, ppl_const_Int64_Box_t *d*) [related]

10.101.2.14 int ppl_Pointset_Powerset_Int64_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.101.2.15 int ppl_Pointset_Powerset_Int64_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.101.2.16 int ppl_Pointset_Powerset_Int64_Box_affine_dimension (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.101.2.17 int ppl_Pointset_Powerset_Int64_Box_affine_image (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.101.2.18 int ppl_Pointset_Powerset_Int64_Box_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.101.2.19 int ppl_Pointset_Powerset_Int64_Box_bounded_affine_image (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.101.2.20 int ppl_Pointset_Powerset_Int64_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.101.2.21 int ppl_Pointset_Powerset_Int64_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.101.2.22 int ppl_Pointset_Powerset_Int64_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.101.2.23 int ppl_Pointset_Powerset_Int64_Box_concatenate_assign (ppl_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.24 int ppl_Pointset_Powerset_Int64_Box_constrains (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.101.2.25 int ppl_Pointset_Powerset_Int64_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.26 int ppl_Pointset_Powerset_Int64_Box_contains_Pointset_Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.27 int ppl_Pointset_Powerset_Int64_Box_difference_assign (ppl_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.28 int ppl_Pointset_Powerset_Int64_Box_drop_disjunct (ppl_Pointset_Powerset_Int64_Box_t *ps*, ppl_const_Pointset_Powerset_Int64_Box_iterator_t *cit*, ppl_Pointset_Powerset_Int64_Box_iterator_t *it*) [related]

10.101.2.29 int ppl_Pointset_Powerset_Int64_Box_drop_disjuncts (ppl_Pointset_Powerset_Int64_Box_t *ps*, ppl_const_Pointset_Powerset_Int64_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Int64_Box_iterator_t *last*) [related]

10.101.2.30 int ppl_Pointset_Powerset_Int64_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int64_Box_t *ph*, int *complexity*) [related]

10.101.2.31 int ppl_Pointset_Powerset_Int64_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.101.2.32 int ppl_Pointset_Powerset_Int64_Box_equals_Pointset_Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.33 int ppl_Pointset_Powerset_Int64_Box_expand_space_dimension (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.101.2.34 int ppl_Pointset_Powerset_Int64_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int64_Box_t *ps*, size_t ∗ *sz*) [related]

10.101.2.35 int ppl_Pointset_Powerset_Int64_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.101.2.36 int ppl_Pointset_Powerset_Int64_Box_generalized_affine_image (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.101.2.37 int ppl_Pointset_Powerset_Int64_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.101.2.38 int ppl_Pointset_Powerset_Int64_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.101.2.39 int ppl_Pointset_Powerset_Int64_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.101.2.40 int ppl_Pointset_Powerset_Int64_Box_geometrically_covers_Pointset_-Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.41 int ppl_Pointset_Powerset_Int64_Box_geometrically_equals_Pointset_-Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.42 int ppl_Pointset_Powerset_Int64_Box_intersection_assign (ppl_Pointset_-Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.43 int ppl_Pointset_Powerset_Int64_Box_is_bounded (ppl_const_Pointset_Powerset_-Int64_Box_t *ph*) [related]

10.101.2.44 int ppl_Pointset_Powerset_Int64_Box_is_discrete (ppl_const_Pointset_Powerset_-Int64_Box_t *ph*) [related]

10.101.2.45 int ppl_Pointset_Powerset_Int64_Box_is_disjoint_from_Pointset_-Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.46 int ppl_Pointset_Powerset_Int64_Box_is_empty (ppl_const_Pointset_Powerset_-Int64_Box_t *ph*) [related]

10.101.2.47 int ppl_Pointset_Powerset_Int64_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.48 int ppl_Pointset_Powerset_Int64_Box_is_universe (ppl_const_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.49 int ppl_Pointset_Powerset_Int64_Box_map_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.101.2.50 int ppl_Pointset_Powerset_Int64_Box_maximize (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.101.2.51 int ppl_Pointset_Powerset_Int64_Box_maximize_with_point (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.101.2.52 int ppl_Pointset_Powerset_Int64_Box_minimize (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.101.2.53 int ppl_Pointset_Powerset_Int64_Box_minimize_with_point (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.101.2.54 int ppl_Pointset_Powerset_Int64_Box_OK (ppl_const_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.55 int ppl_Pointset_Powerset_Int64_Box_omega_reduce (ppl_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.56 int ppl_Pointset_Powerset_Int64_Box_pairwise_reduce (ppl_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.57 int ppl_Pointset_Powerset_Int64_Box_refine_with_congruence (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.101.2.58 int ppl_Pointset_Powerset_Int64_Box_refine_with_congruences (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.101.2.59 int ppl_Pointset_Powerset_Int64_Box_refine_with_constraint (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.101.2.60 int ppl_Pointset_Powerset_Int64_Box_refine_with_constraints (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.101.2.61 int ppl_Pointset_Powerset_Int64_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.101.2.62 int ppl_Pointset_Powerset_Int64_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.101.2.63 int ppl_Pointset_Powerset_Int64_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int64_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.101.2.64 int ppl_Pointset_Powerset_Int64_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.101.2.65 int ppl_Pointset_Powerset_Int64_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.101.2.66 int ppl_Pointset_Powerset_Int64_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.67 int ppl_Pointset_Powerset_Int64_Box_size (ppl_const_Pointset_Powerset_Int64_-Box_t *ps*, size_t ∗ *sz*) [related]

10.101.2.68 int ppl_Pointset_Powerset_Int64_Box_space_dimension (ppl_const_-Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.101.2.69 int ppl_Pointset_Powerset_Int64_Box_strictly_contains_Pointset_-Powerset_Int64_Box (ppl_const_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.70 int ppl_Pointset_Powerset_Int64_Box_time_elapse_assign (ppl_Pointset_-Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.71 int ppl_Pointset_Powerset_Int64_Box_topological_closure_assign (ppl_Pointset_Powerset_Int64_Box_t *ph*) [related]

10.101.2.72 int ppl_Pointset_Powerset_Int64_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int64_Box_t *ps*, size_t ∗ *sz*) [related]

10.101.2.73 int ppl_Pointset_Powerset_Int64_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.101.2.74 int ppl_Pointset_Powerset_Int64_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.101.2.75 int ppl_Pointset_Powerset_Int64_Box_upper_bound_assign (ppl_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

10.101.2.76 int ppl_Pointset_Powerset_Int64_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int64_Box_t *x*, ppl_const_Pointset_Powerset_Int64_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.102 ppl_Pointset_Powerset_Int8_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int8_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int8_Box_const_iterator (ppl_Pointset_Powerset_Int8_Box_const_iterator_t ∗pit)

- int ppl_new_Pointset_Powerset_Int8_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int8_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int8_Box_t ps, ppl_Pointset_Powerset_Int8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int8_Box_t ps, ppl_Pointset_Powerset_Int8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_increment (ppl_Pointset_Powerset_Int8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t ps, ppl_const_Int8_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int8_Box_const_iterator (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t psit)

10.102.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Int8_Box_tag.

10.102.2 Friends And Related Function Documentation

10.102.2.1 int ppl_delete_Pointset_Powerset_Int8_Box_const_iterator (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t *psit*) [related]

10.102.2.2 int ppl_new_Pointset_Powerset_Int8_Box_const_iterator (ppl_Pointset_Powerset_Int8_Box_const_iterator_t * *pit*) [related]

10.102.2.3 int ppl_new_Pointset_Powerset_Int8_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Int8_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t *y*) [related]

10.102.2.4 int ppl_Pointset_Powerset_Int8_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Int8_Box_t *ps*, ppl_Pointset_Powerset_Int8_Box_const_iterator_t *psit*) [related]

10.102.2.5 int ppl_Pointset_Powerset_Int8_Box_const_iterator_decrement (ppl_Pointset_Powerset_Int8_Box_const_iterator_t *psit*) [related]

10.102.2.6 int ppl_Pointset_Powerset_Int8_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t *ps*, ppl_const_Int8_Box_t * *d*) [related]

10.102.2.7 int ppl_Pointset_Powerset_Int8_Box_const_iterator_end (ppl_const_Pointset_Powerset_Int8_Box_t *ps*, ppl_Pointset_Powerset_Int8_Box_const_iterator_t *psit*) [related]

10.102.2.8 int ppl_Pointset_Powerset_Int8_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Int8_Box_const_iterator_t *y*) [related]

10.102.2.9 int ppl_Pointset_Powerset_Int8_Box_const_iterator_increment (ppl_Pointset_Powerset_Int8_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.103 ppl_Pointset_Powerset_Int8_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Int8_Box_iterator (ppl_Pointset_Powerset_Int8_Box_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Int8_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int8_Box_iterator_t *px, ppl_const_Pointset_Powerset_Int8_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int8_Box_iterator_begin (ppl_Pointset_Powerset_Int8_Box_t ps, ppl_Pointset_Powerset_Int8_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_iterator_end (ppl_Pointset_Powerset_Int8_Box_t ps, ppl_Pointset_Powerset_Int8_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int8_Box_iterator_t x, ppl_const_Pointset_Powerset_Int8_Box_iterator_t y)
- int ppl_Pointset_Powerset_Int8_Box_iterator_increment (ppl_Pointset_Powerset_Int8_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Int8_Box_iterator_decrement (ppl_Pointset_Powerset_Int8_Box_iterator_t psit)

- int ppl_Pointset_Powerset_Int8_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int8_Box_iterator_t ps, ppl_const_Int8_Box_t *d)
- int ppl_delete_Pointset_Powerset_Int8_Box_iterator (ppl_const_Pointset_Powerset_Int8_Box_iterator_t psit)

10.103.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Int8_Box_tag.

10.103.2 Friends And Related Function Documentation

10.103.2.1 int ppl_delete_Pointset_Powerset_Int8_Box_iterator (ppl_const_Pointset_Powerset_Int8_Box_iterator_t *psit*) `[related]`

10.103.2.2 int ppl_new_Pointset_Powerset_Int8_Box_iterator (ppl_Pointset_Powerset_Int8_Box_iterator_t * *pit*) `[related]`

10.103.2.3 int ppl_new_Pointset_Powerset_Int8_Box_iterator_from_iterator (ppl_Pointset_Powerset_Int8_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Int8_Box_iterator_t *y*) `[related]`

10.103.2.4 int ppl_Pointset_Powerset_Int8_Box_iterator_begin (ppl_Pointset_Powerset_Int8_Box_t *ps*, ppl_Pointset_Powerset_Int8_Box_iterator_t *psit*) `[related]`

10.103.2.5 int ppl_Pointset_Powerset_Int8_Box_iterator_decrement (ppl_Pointset_Powerset_Int8_Box_iterator_t *psit*) `[related]`

10.103.2.6 int ppl_Pointset_Powerset_Int8_Box_iterator_dereference (ppl_const_Pointset_Powerset_Int8_Box_iterator_t *ps*, ppl_const_Int8_Box_t * *d*) `[related]`

10.103.2.7 int ppl_Pointset_Powerset_Int8_Box_iterator_end (ppl_Pointset_Powerset_Int8_Box_t *ps*, ppl_Pointset_Powerset_Int8_Box_iterator_t *psit*) `[related]`

10.103.2.8 int ppl_Pointset_Powerset_Int8_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Int8_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Int8_Box_iterator_t *y*) [related]

10.103.2.9 int ppl_Pointset_Powerset_Int8_Box_iterator_increment (ppl_Pointset_Powerset_Int8_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.104 ppl_Pointset_Powerset_Int8_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Int8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_new_Pointset_Powerset_Int8_Box_from_space_dimension (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Pointset_Powerset_Int8_Box (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Int8_Box (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Pointset_Powerset_Int8_Box_with_complexity (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Pointset_Powerset_Int8_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Int8_Box_with_complexity (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Constraint_System (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Int8_Box_from_Congruence_System (ppl_Pointset_Powerset_Int8_Box_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int8_Box_space_dimension (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Int8_Box_affine_dimension (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Int8_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int8_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Int8_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_Int8_Box_is_empty (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_is_universe (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_is_bounded (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int8_-Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int8_-Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_is_discrete (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_topological_closure_assign (ppl_Pointset_Powerset_Int8_-Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_pairwise_reduce (ppl_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_omega_reduce (ppl_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int8_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int8_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int8_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Int8_Box_maximize (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int8_Box_minimize (ppl_const_Pointset_Powerset_Int8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Int8_Box_maximize_with_point (ppl_const_Pointset_Powerset_Int8_-Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int8_Box_minimize_with_point (ppl_const_Pointset_Powerset_Int8_-Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Int8_Box_contains_Pointset_Powerset_Int8_Box (ppl_const_Pointset_-Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_strictly_contains_Pointset_Powerset_Int8_Box (ppl_const_-Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_is_disjoint_from_Pointset_Powerset_Int8_Box (ppl_const_-Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_geometrically_covers_Pointset_Powerset_Int8_Box (ppl_-const_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_geometrically_equals_Pointset_Powerset_Int8_Box (ppl_-const_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_equals_Pointset_Powerset_Int8_Box (ppl_const_Pointset_-Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_OK (ppl_const_Pointset_Powerset_Int8_Box_t ph)
- int ppl_Pointset_Powerset_Int8_Box_add_constraint (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_-const_Constraint_t c)
- int ppl_Pointset_Powerset_Int8_Box_add_congruence (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Int8_Box_add_constraints (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_-const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int8_Box_add_congruences (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int8_Box_refine_with_constraint (ppl_Pointset_Powerset_Int8_Box_-t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Int8_Box_refine_with_congruence (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Congruence_t c)

- int ppl_Pointset_Powerset_Int8_Box_refine_with_constraints (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Int8_Box_refine_with_congruences (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Int8_Box_intersection_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_upper_bound_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_difference_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_concatenate_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_time_elapse_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int8_Box_t x, ppl_const_Pointset_Powerset_Int8_Box_t y)
- int ppl_Pointset_Powerset_Int8_Box_constrains (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int8_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Int8_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Int8_Box_affine_image (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_bounded_affine_image (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_generalized_affine_image (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Int8_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int8_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Int8_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int8_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int8_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_Pointset_Powerset_Int8_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int8_Box_expand_space_dimension (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Int8_Box_fold_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Int8_Box_map_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Int8_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int8_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Int8_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int8_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Int8_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int8_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int8_Box_size (ppl_const_Pointset_Powerset_Int8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Int8_Box_add_disjunct (ppl_Pointset_Powerset_Int8_Box_t ps, ppl_const_Int8_Box_t d)
- int ppl_Pointset_Powerset_Int8_Box_drop_disjunct (ppl_Pointset_Powerset_Int8_Box_t ps, ppl_const_Pointset_Powerset_Int8_Box_iterator_t cit, ppl_Pointset_Powerset_Int8_Box_iterator_t it)
- int ppl_Pointset_Powerset_Int8_Box_drop_disjuncts (ppl_Pointset_Powerset_Int8_Box_t ps, ppl_const_Pointset_Powerset_Int8_Box_iterator_t first, ppl_const_Pointset_Powerset_Int8_Box_iterator_t last)

10.104.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Int8_Box_tag.

10.104.2 Friends And Related Function Documentation

10.104.2.1 int ppl_delete_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.2 int ppl_new_Pointset_Powerset_Int8_Box_from_Congruence_System (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.104.2.3 int ppl_new_Pointset_Powerset_Int8_Box_from_Constraint_System (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.104.2.4 int ppl_new_Pointset_Powerset_Int8_Box_from_Int8_Box (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.104.2.5 int ppl_new_Pointset_Powerset_Int8_Box_from_Int8_Box_with_complexity (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.104.2.6 int ppl_new_Pointset_Powerset_Int8_Box_from_Pointset_Powerset_Int8_Box (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.7 int ppl_new_Pointset_Powerset_Int8_Box_from_Pointset_Powerset_Int8_Box_with_complexity (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Int8_Box_t *ph*, int *complexity*) [related]

10.104.2.8 int ppl_new_Pointset_Powerset_Int8_Box_from_space_dimension (ppl_Pointset_Powerset_Int8_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.104.2.9 int ppl_Pointset_Powerset_Int8_Box_add_congruence (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.104.2.10 int ppl_Pointset_Powerset_Int8_Box_add_congruences (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.104.2.11 int ppl_Pointset_Powerset_Int8_Box_add_constraint (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.104.2.12 int ppl_Pointset_Powerset_Int8_Box_add_constraints (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.104.2.13 int ppl_Pointset_Powerset_Int8_Box_add_disjunct (ppl_Pointset_Powerset_Int8_Box_t *ps*, ppl_const_Int8_Box_t *d*) [related]

10.104.2.14 int ppl_Pointset_Powerset_Int8_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.104.2.15 int ppl_Pointset_Powerset_Int8_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.104.2.16 int ppl_Pointset_Powerset_Int8_Box_affine_dimension (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.104.2.17 int ppl_Pointset_Powerset_Int8_Box_affine_image (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.104.2.18 int ppl_Pointset_Powerset_Int8_Box_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.104.2.19 int ppl_Pointset_Powerset_Int8_Box_bounded_affine_image (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.104.2.20 int ppl_Pointset_Powerset_Int8_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.104.2.21 int ppl_Pointset_Powerset_Int8_Box_bounds_from_above (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.104.2.22 int ppl_Pointset_Powerset_Int8_Box_bounds_from_below (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.104.2.23 int ppl_Pointset_Powerset_Int8_Box_concatenate_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.24 int ppl_Pointset_Powerset_Int8_Box_constrains (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.104.2.25 int ppl_Pointset_Powerset_Int8_Box_contains_integer_point (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.26 int ppl_Pointset_Powerset_Int8_Box_contains_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.27 int ppl_Pointset_Powerset_Int8_Box_difference_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.28 int ppl_Pointset_Powerset_Int8_Box_drop_disjunct (ppl_Pointset_Powerset_-Int8_Box_t *ps*, ppl_const_Pointset_Powerset_Int8_Box_iterator_t *cit*, ppl_Pointset_Powerset_Int8_Box_iterator_t *it*) [related]

10.104.2.29 int ppl_Pointset_Powerset_Int8_Box_drop_disjuncts (ppl_Pointset_Powerset_-Int8_Box_t *ps*, ppl_const_Pointset_Powerset_Int8_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Int8_Box_iterator_t *last*) [related]

10.104.2.30 int ppl_Pointset_Powerset_Int8_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Int8_Box_t *ph*, int *complexity*) [related]

10.104.2.31 int ppl_Pointset_Powerset_Int8_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.104.2.32 int ppl_Pointset_Powerset_Int8_Box_equals_Pointset_Powerset_Int8_Box (ppl_-const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.33 int ppl_Pointset_Powerset_Int8_Box_expand_space_dimension (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.104.2.34 int ppl_Pointset_Powerset_Int8_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Int8_Box_t *ps*, size_t ∗ *sz*) [related]

10.104.2.35 int ppl_Pointset_Powerset_Int8_Box_fold_space_dimensions (ppl_Pointset_-Powerset_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.104.2.36 int ppl_Pointset_Powerset_Int8_Box_generalized_affine_image (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.104.2.37 int ppl_Pointset_Powerset_Int8_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.104.2.38 int ppl_Pointset_Powerset_Int8_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.104.2.39 int ppl_Pointset_Powerset_Int8_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.104.2.40 int ppl_Pointset_Powerset_Int8_Box_geometrically_covers_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.41 int ppl_Pointset_Powerset_Int8_Box_geometrically_equals_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.42 int ppl_Pointset_Powerset_Int8_Box_intersection_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.43 int ppl_Pointset_Powerset_Int8_Box_is_bounded (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.44 int ppl_Pointset_Powerset_Int8_Box_is_discrete (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.45 int ppl_Pointset_Powerset_Int8_Box_is_disjoint_from_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.46 int ppl_Pointset_Powerset_Int8_Box_is_empty (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.47 int ppl_Pointset_Powerset_Int8_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.48 int ppl_Pointset_Powerset_Int8_Box_is_universe (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.49 int ppl_Pointset_Powerset_Int8_Box_map_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.104.2.50 int ppl_Pointset_Powerset_Int8_Box_maximize (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.104.2.51 int ppl_Pointset_Powerset_Int8_Box_maximize_with_point (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.104.2.52 int ppl_Pointset_Powerset_Int8_Box_minimize (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.104.2.53 int ppl_Pointset_Powerset_Int8_Box_minimize_with_point (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.104.2.54 int ppl_Pointset_Powerset_Int8_Box_OK (ppl_const_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.55 int ppl_Pointset_Powerset_Int8_Box_omega_reduce (ppl_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.56 int ppl_Pointset_Powerset_Int8_Box_pairwise_reduce (ppl_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.57 int ppl_Pointset_Powerset_Int8_Box_refine_with_congruence (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.104.2.58 int ppl_Pointset_Powerset_Int8_Box_refine_with_congruences (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.104.2.59 int ppl_Pointset_Powerset_Int8_Box_refine_with_constraint (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.104.2.60 int ppl_Pointset_Powerset_Int8_Box_refine_with_constraints (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.104.2.61 int ppl_Pointset_Powerset_Int8_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.104.2.62 int ppl_Pointset_Powerset_Int8_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.104.2.63 int ppl_Pointset_Powerset_Int8_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.104.2.64 int ppl_Pointset_Powerset_Int8_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.104.2.65 int ppl_Pointset_Powerset_Int8_Box_remove_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.104.2.66 int ppl_Pointset_Powerset_Int8_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.67 int ppl_Pointset_Powerset_Int8_Box_size (ppl_const_Pointset_Powerset_Int8_Box_t *ps*, size_t ∗ *sz*) [related]

10.104.2.68 int ppl_Pointset_Powerset_Int8_Box_space_dimension (ppl_const_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.104.2.69 int ppl_Pointset_Powerset_Int8_Box_strictly_contains_Pointset_Powerset_Int8_Box (ppl_const_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.70 int ppl_Pointset_Powerset_Int8_Box_time_elapse_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.71 int ppl_Pointset_Powerset_Int8_Box_topological_closure_assign (ppl_Pointset_Powerset_Int8_Box_t *ph*) [related]

10.104.2.72 int ppl_Pointset_Powerset_Int8_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Int8_Box_t *ps*, size_t ∗ *sz*) [related]

10.104.2.73 int ppl_Pointset_Powerset_Int8_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.104.2.74 int ppl_Pointset_Powerset_Int8_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Int8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.104.2.75 int ppl_Pointset_Powerset_Int8_Box_upper_bound_assign (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

10.104.2.76 int ppl_Pointset_Powerset_Int8_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Int8_Box_t *x*, ppl_const_Pointset_Powerset_Int8_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.105 ppl_Pointset_Powerset_Long_Double_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Long_Double_Box_-tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Long_Double_Box_const_iterator (ppl_Pointset_Powerset_Long_-Double_Box_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Long_Double_Box_const_iterator_from_const_iterator (ppl_-Pointset_Powerset_Long_Double_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Long_-Double_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_begin (ppl_const_Pointset_-Powerset_Long_Double_Box_t ps, ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_end (ppl_const_Pointset_Powerset_-Long_Double_Box_t ps, ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_equal_test (ppl_const_Pointset_-Powerset_Long_Double_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Long_Double_-Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_increment (ppl_Pointset_Powerset_-Long_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_decrement (ppl_Pointset_Powerset_-Long_Double_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_dereference (ppl_const_Pointset_-Powerset_Long_Double_Box_const_iterator_t ps, ppl_const_Long_Double_Box_t *d)
- int ppl_delete_Pointset_Powerset_Long_Double_Box_const_iterator (ppl_const_Pointset_-Powerset_Long_Double_Box_const_iterator_t psit)

10.105.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Long_Double_Box_-tag.

10.105.2 Friends And Related Function Documentation

10.105.2.1 int ppl_delete_Pointset_Powerset_Long_Double_Box_const_iterator (ppl_const_Pointset_Powerset_Long_Double_Box_const_iterator_t *psit*) `[related]`

10.105.2.2 int ppl_new_Pointset_Powerset_Long_Double_Box_const_iterator (ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t * *pit*) `[related]`

10.105.2.3 int ppl_new_Pointset_Powerset_Long_Double_Box_const_iterator_from_const_-iterator (ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Long_Double_Box_const_iterator_t *y*) [related]

10.105.2.4 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_-begin (ppl_const_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t *psit*) [related]

10.105.2.5 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_decrement (ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t *psit*) [related]

10.105.2.6 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Long_Double_Box_const_iterator_t *ps*, ppl_const_Long_Double_Box_t ∗ *d*) [related]

10.105.2.7 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_end (ppl_const_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_Pointset_Powerset_Long_-Double_Box_const_iterator_t *psit*) [related]

10.105.2.8 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Long_Double_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_const_iterator_t *y*) [related]

10.105.2.9 int ppl_Pointset_Powerset_Long_Double_Box_const_iterator_increment (ppl_Pointset_Powerset_Long_Double_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.106 ppl_Pointset_Powerset_Long_Double_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Long_Double_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Long_Double_Box_iterator (ppl_Pointset_Powerset_Long_-Double_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Long_Double_Box_iterator_from_iterator (ppl_Pointset_-Powerset_Long_Double_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Long_Double_-Box_iterator_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_begin (ppl_Pointset_Powerset_Long_-Double_Box_t ps, ppl_Pointset_Powerset_Long_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_end (ppl_Pointset_Powerset_Long_-Double_Box_t ps, ppl_Pointset_Powerset_Long_Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_equal_test (ppl_const_Pointset_Powerset_-Long_Double_Box_iterator_t x, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_increment (ppl_Pointset_Powerset_Long_-Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_decrement (ppl_Pointset_Powerset_Long_-Double_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Long_Double_Box_iterator_dereference (ppl_const_Pointset_-Powerset_Long_Double_Box_iterator_t ps, ppl_const_Long_Double_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Long_Double_Box_iterator (ppl_const_Pointset_Powerset_-Long_Double_Box_iterator_t psit)

10.106.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Long_Double_Box_tag.

10.106.2 Friends And Related Function Documentation

10.106.2.1 int ppl_delete_Pointset_Powerset_Long_Double_Box_iterator (ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *psit*) `[related]`

10.106.2.2 int ppl_new_Pointset_Powerset_Long_Double_Box_iterator (ppl_Pointset_Powerset_Long_Double_Box_iterator_t ∗ *pit*) `[related]`

10.106.2.3 int ppl_new_Pointset_Powerset_Long_Double_Box_iterator_from_-iterator (ppl_Pointset_Powerset_Long_Double_Box_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *y*) `[related]`

10.106.2.4 int ppl_Pointset_Powerset_Long_Double_Box_iterator_begin (ppl_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_Pointset_Powerset_Long_Double_Box_iterator_t *psit*) [related]

10.106.2.5 int ppl_Pointset_Powerset_Long_Double_Box_iterator_decrement (ppl_Pointset_Powerset_Long_Double_Box_iterator_t *psit*) [related]

10.106.2.6 int ppl_Pointset_Powerset_Long_Double_Box_iterator_dereference (ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *ps*, ppl_const_Long_Double_Box_t * *d*) [related]

10.106.2.7 int ppl_Pointset_Powerset_Long_Double_Box_iterator_end (ppl_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_Pointset_Powerset_Long_Double_Box_iterator_t *psit*) [related]

10.106.2.8 int ppl_Pointset_Powerset_Long_Double_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *y*) [related]

10.106.2.9 int ppl_Pointset_Powerset_Long_Double_Box_iterator_increment (ppl_Pointset_Powerset_Long_Double_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.107 ppl_Pointset_Powerset_Long_Double_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Long_Double_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t ph)

- int ppl_new_Pointset_Powerset_Long_Double_Box_from_space_dimension (ppl_Pointset_-Powerset_Long_Double_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Pointset_Powerset_Long_Double_Box (ppl_Pointset_Powerset_Long_Double_Box_t *pph, ppl_const_Pointset_Powerset_Long_Double_-Box_t ph)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Long_Double_Box (ppl_Pointset_-Powerset_Long_Double_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Pointset_Powerset_Long_Double_-Box_with_complexity (ppl_Pointset_Powerset_Long_Double_Box_t *pph, ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Long_Double_Box_with_complexity (ppl_Pointset_Powerset_Long_Double_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Constraint_System (ppl_Pointset_-Powerset_Long_Double_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Long_Double_Box_from_Congruence_System (ppl_Pointset_-Powerset_Long_Double_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Long_Double_Box_space_dimension (ppl_const_Pointset_Powerset_-Long_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Long_Double_Box_affine_dimension (ppl_const_Pointset_Powerset_-Long_Double_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Constraint (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Generator (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Congruence (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_is_empty (ppl_const_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_is_universe (ppl_const_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_is_bounded (ppl_const_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_contains_integer_point (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_is_topologically_closed (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_is_discrete (ppl_const_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_topological_closure_assign (ppl_Pointset_-Powerset_Long_Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_pairwise_reduce (ppl_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_omega_reduce (ppl_Pointset_Powerset_Long_-Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_bounds_from_above (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Long_Double_Box_bounds_from_below (ppl_const_Pointset_-Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Long_Double_Box_maximize (ppl_const_Pointset_Powerset_Long_-Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)

- int ppl_Pointset_Powerset_Long_Double_Box_minimize (ppl_const_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Long_Double_Box_maximize_with_point (ppl_const_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Long_Double_Box_minimize_with_point (ppl_const_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Long_Double_Box_contains_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_strictly_contains_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_is_disjoint_from_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_geometrically_covers_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_geometrically_equals_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_equals_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_OK (ppl_const_Pointset_Powerset_Long_Double_Box_t ph)
- int ppl_Pointset_Powerset_Long_Double_Box_add_constraint (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_add_congruence (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_add_constraints (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Long_Double_Box_add_congruences (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Long_Double_Box_refine_with_constraint (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_refine_with_congruence (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Long_Double_Box_refine_with_constraints (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Long_Double_Box_refine_with_congruences (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Long_Double_Box_intersection_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_upper_bound_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_difference_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)

- int ppl_Pointset_Powerset_Long_Double_Box_concatenate_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_time_elapse_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Long_Double_Box_t x, ppl_const_Pointset_Powerset_Long_Double_Box_t y)
- int ppl_Pointset_Powerset_Long_Double_Box_constrains (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Long_Double_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Long_Double_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Long_Double_Box_affine_image (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_bounded_affine_image (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_image (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Long_Double_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Long_Double_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Long_Double_Box_remove_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Long_Double_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Long_Double_Box_expand_space_dimension (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Long_Double_Box_fold_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Long_Double_Box_map_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t ph, ppl_dimension_type maps[ ], size_t n)

- int ppl_Pointset_Powerset_Long_Double_Box_drop_some_non_integer_points (ppl_Pointset_-Powerset_Long_Double_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Long_Double_Box_drop_some_non_integer_points_2 (ppl_Pointset_-Powerset_Long_Double_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Long_Double_Box_external_memory_in_bytes (ppl_const_Pointset_-Powerset_Long_Double_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Long_Double_Box_total_memory_in_bytes (ppl_const_Pointset_-Powerset_Long_Double_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Long_Double_Box_size (ppl_const_Pointset_Powerset_Long_Double_-Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Long_Double_Box_add_disjunct (ppl_Pointset_Powerset_Long_-Double_Box_t ps, ppl_const_Long_Double_Box_t d)
- int ppl_Pointset_Powerset_Long_Double_Box_drop_disjunct (ppl_Pointset_Powerset_Long_-Double_Box_t ps, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t cit, ppl_Pointset_-Powerset_Long_Double_Box_iterator_t it)
- int ppl_Pointset_Powerset_Long_Double_Box_drop_disjuncts (ppl_Pointset_Powerset_Long_-Double_Box_t ps, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t first, ppl_const_-Pointset_Powerset_Long_Double_Box_iterator_t last)

10.107.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Long_Double_Box_tag.

10.107.2 Friends And Related Function Documentation

10.107.2.1 int ppl_delete_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_-Long_Double_Box_t *ph*) [related]

10.107.2.2 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Congruence_System (ppl_Pointset_Powerset_Long_Double_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.107.2.3 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Constraint_System (ppl_Pointset_Powerset_Long_Double_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.107.2.4 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Long_Double_Box (ppl_Pointset_Powerset_Long_Double_Box_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.107.2.5 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Long_Double_-Box_with_complexity (ppl_Pointset_Powerset_Long_Double_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.107.2.6 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Pointset_Powerset_-Long_Double_Box (ppl_Pointset_Powerset_Long_Double_Box_t * *pph*, ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.7 int ppl_new_Pointset_Powerset_Long_Double_Box_from_Pointset_Powerset_Long_-Double_Box_with_complexity (ppl_Pointset_Powerset_Long_Double_Box_t * *pph*, ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, int *complexity*) [related]

10.107.2.8 int ppl_new_Pointset_Powerset_Long_Double_Box_from_space_dimension (ppl_Pointset_Powerset_Long_Double_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.107.2.9 int ppl_Pointset_Powerset_Long_Double_Box_add_congruence (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.107.2.10 int ppl_Pointset_Powerset_Long_Double_Box_add_congruences (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.107.2.11 int ppl_Pointset_Powerset_Long_Double_Box_add_constraint (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.107.2.12 int ppl_Pointset_Powerset_Long_Double_Box_add_constraints (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.107.2.13 int ppl_Pointset_Powerset_Long_Double_Box_add_disjunct (ppl_Pointset_-Powerset_Long_Double_Box_t *ps*, ppl_const_Long_Double_Box_t *d*) [related]

10.107.2.14 int ppl_Pointset_Powerset_Long_Double_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.107.2.15 int ppl_Pointset_Powerset_Long_Double_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.107.2.16 int ppl_Pointset_Powerset_Long_Double_Box_affine_dimension (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.107.2.17 int ppl_Pointset_Powerset_Long_Double_Box_affine_image (ppl_Pointset_Powerset_-Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.107.2.18 int ppl_Pointset_Powerset_Long_Double_Box_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.107.2.19 int ppl_Pointset_Powerset_Long_Double_Box_bounded_affine_image (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.107.2.20 int ppl_Pointset_Powerset_Long_Double_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.107.2.21 int ppl_Pointset_Powerset_Long_Double_Box_bounds_from_above (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.107.2.22 int ppl_Pointset_Powerset_Long_Double_Box_bounds_from_below (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.107.2.23 int ppl_Pointset_Powerset_Long_Double_Box_concatenate_assign (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.24 int ppl_Pointset_Powerset_Long_Double_Box_constrains (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*) [related]

10.107.2.25 int ppl_Pointset_Powerset_Long_Double_Box_contains_integer_point (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.26 int ppl_Pointset_Powerset_Long_Double_Box_contains_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.27 int ppl_Pointset_Powerset_Long_Double_Box_difference_assign (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.28 int ppl_Pointset_Powerset_Long_Double_Box_drop_disjunct (ppl_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *cit*, ppl_Pointset_Powerset_Long_Double_Box_iterator_t *it*) [related]

10.107.2.29 int ppl_Pointset_Powerset_Long_Double_Box_drop_disjuncts (ppl_Pointset_Powerset_Long_Double_Box_t *ps*, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Long_Double_Box_iterator_t *last*) [related]

10.107.2.30 int ppl_Pointset_Powerset_Long_Double_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, int *complexity*) [related]

10.107.2.31 int ppl_Pointset_Powerset_Long_Double_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.107.2.32 int ppl_Pointset_Powerset_Long_Double_Box_equals_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.33 int ppl_Pointset_Powerset_Long_Double_Box_expand_space_dimension (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.107.2.34 int ppl_Pointset_Powerset_Long_Double_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Long_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.107.2.35 int ppl_Pointset_Powerset_Long_Double_Box_fold_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.107.2.36 int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_image (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.107.2.37 int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.107.2.38 int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.107.2.39 int ppl_Pointset_Powerset_Long_Double_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.107.2.40 int ppl_Pointset_Powerset_Long_Double_Box_geometrically_covers_Pointset_-Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.41 int ppl_Pointset_Powerset_Long_Double_Box_geometrically_equals_Pointset_-Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.42 int ppl_Pointset_Powerset_Long_Double_Box_intersection_assign (ppl_Pointset_-Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.43 int ppl_Pointset_Powerset_Long_Double_Box_is_bounded (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.44 int ppl_Pointset_Powerset_Long_Double_Box_is_discrete (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.45 int ppl_Pointset_Powerset_Long_Double_Box_is_disjoint_from_Pointset_-Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.46 int ppl_Pointset_Powerset_Long_Double_Box_is_empty (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.47 int ppl_Pointset_Powerset_Long_Double_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.48 int ppl_Pointset_Powerset_Long_Double_Box_is_universe (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.49 int ppl_Pointset_Powerset_Long_Double_Box_map_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.107.2.50 int ppl_Pointset_Powerset_Long_Double_Box_maximize (ppl_const_Pointset_-Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.107.2.51 int ppl_Pointset_Powerset_Long_Double_Box_maximize_with_point (ppl_const_-Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.107.2.52 int ppl_Pointset_Powerset_Long_Double_Box_minimize (ppl_const_Pointset_-Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.107.2.53 int ppl_Pointset_Powerset_Long_Double_Box_minimize_with_point (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.107.2.54 int ppl_Pointset_Powerset_Long_Double_Box_OK (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.55 int ppl_Pointset_Powerset_Long_Double_Box_omega_reduce (ppl_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.56 int ppl_Pointset_Powerset_Long_Double_Box_pairwise_reduce (ppl_Pointset_Powerset_Long_Double_Box_t *ph*) [related]

10.107.2.57 int ppl_Pointset_Powerset_Long_Double_Box_refine_with_congruence (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.107.2.58 int ppl_Pointset_Powerset_Long_Double_Box_refine_with_congruences (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.107.2.59 int ppl_Pointset_Powerset_Long_Double_Box_refine_with_constraint (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.107.2.60 int ppl_Pointset_Powerset_Long_Double_Box_refine_with_constraints (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.107.2.61 int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.107.2.62 int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.107.2.63 int ppl_Pointset_Powerset_Long_Double_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.107.2.64 int ppl_Pointset_Powerset_Long_Double_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *d*) [related]

10.107.2.65 int ppl_Pointset_Powerset_Long_Double_Box_remove_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.107.2.66 int ppl_Pointset_Powerset_Long_Double_Box_simplify_using_-context_assign (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) [related]

10.107.2.67 int ppl_Pointset_Powerset_Long_Double_Box_size (ppl_const_Pointset_Powerset_-Long_Double_Box_t *ps*, size_t ∗ *sz*) [related]

10.107.2.68 int ppl_Pointset_Powerset_Long_Double_Box_space_dimension (ppl_const_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.107.2.69 int ppl_Pointset_Powerset_Long_Double_Box_strictly_contains_Pointset_Powerset_Long_Double_Box (ppl_const_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) `[related]`

10.107.2.70 int ppl_Pointset_Powerset_Long_Double_Box_time_elapse_assign (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) `[related]`

10.107.2.71 int ppl_Pointset_Powerset_Long_Double_Box_topological_closure_assign (ppl_Pointset_Powerset_Long_Double_Box_t *ph*) `[related]`

10.107.2.72 int ppl_Pointset_Powerset_Long_Double_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Long_Double_Box_t *ps*, size_t ∗ *sz*) `[related]`

10.107.2.73 int ppl_Pointset_Powerset_Long_Double_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *var*) `[related]`

10.107.2.74 int ppl_Pointset_Powerset_Long_Double_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Long_Double_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.107.2.75 int ppl_Pointset_Powerset_Long_Double_Box_upper_bound_assign (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) `[related]`

10.107.2.76 int ppl_Pointset_Powerset_Long_Double_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Long_Double_Box_t *x*, ppl_const_Pointset_Powerset_Long_Double_Box_t *y*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.108 ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_NNC_Polyhedron_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_NNC_Polyhedron_const_iterator (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_const_iterator_from_const_iterator (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *px, ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_begin (ppl_const_Pointset_Powerset_NNC_Polyhedron_t ps, ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_end (ppl_const_Pointset_Powerset_NNC_Polyhedron_t ps, ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_equal_test (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_increment (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_decrement (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_dereference (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t ps, ppl_const_Polyhedron_t *d)
- int ppl_delete_Pointset_Powerset_NNC_Polyhedron_const_iterator (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t psit)

10.108.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_NNC_Polyhedron_tag.

10.108.2 Friends And Related Function Documentation

10.108.2.1 int ppl_delete_Pointset_Powerset_NNC_Polyhedron_const_iterator (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *psit*) `[related]`

10.108.2.2 int ppl_new_Pointset_Powerset_NNC_Polyhedron_const_iterator (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t * *pit*) `[related]`

10.108.2.3 int ppl_new_Pointset_Powerset_NNC_Polyhedron_const_iterator_from_const_iterator (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *y*) [related]

10.108.2.4 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_begin (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ps*, ppl_Pointset_Powerset_NNC_-Polyhedron_const_iterator_t *psit*) [related]

10.108.2.5 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_decrement (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *psit*) [related]

10.108.2.6 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_dereference (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *ps*, ppl_const_Polyhedron_t ∗ *d*) [related]

10.108.2.7 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_end (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ps*, ppl_Pointset_Powerset_NNC_-Polyhedron_const_iterator_t *psit*) [related]

10.108.2.8 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_equal_test (ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *y*) [related]

10.108.2.9 int ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_increment (ppl_Pointset_Powerset_NNC_Polyhedron_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.109 ppl_Pointset_Powerset_NNC_Polyhedron_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_NNC_Polyhedron_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_NNC_Polyhedron_iterator (ppl_Pointset_Powerset_NNC_-Polyhedron_iterator_t *pit)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_iterator_from_iterator (ppl_Pointset_-Powerset_NNC_Polyhedron_iterator_t *px, ppl_const_Pointset_Powerset_NNC_Polyhedron_-iterator_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_begin (ppl_Pointset_Powerset_NNC_-Polyhedron_t ps, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_end (ppl_Pointset_Powerset_NNC_-Polyhedron_t ps, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_equal_test (ppl_const_Pointset_Powerset_-NNC_Polyhedron_iterator_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_increment (ppl_Pointset_Powerset_NNC_-Polyhedron_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_decrement (ppl_Pointset_Powerset_NNC_-Polyhedron_iterator_t psit)
- int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_dereference (ppl_const_Pointset_Powerset_-NNC_Polyhedron_iterator_t ps, ppl_const_Polyhedron_t *d)
- int ppl_delete_Pointset_Powerset_NNC_Polyhedron_iterator (ppl_const_Pointset_Powerset_-NNC_Polyhedron_iterator_t psit)

10.109.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_NNC_Polyhedron_tag.

10.109.2 Friends And Related Function Documentation

10.109.2.1 int ppl_delete_Pointset_Powerset_NNC_Polyhedron_iterator (ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *psit*) [related]

10.109.2.2 int ppl_new_Pointset_Powerset_NNC_Polyhedron_iterator (ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t * *pit*) [related]

10.109.2.3 int ppl_new_Pointset_Powerset_NNC_Polyhedron_iterator_from_-iterator (ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t * *px*, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *y*) [related]

10.109.2.4 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_begin (ppl_Pointset_Powerset_-NNC_Polyhedron_t *ps*, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t *psit*) [related]

10.109.2.5 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_decrement (ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t *psit*) [related]

10.109.2.6 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_dereference (ppl_const_-Pointset_Powerset_NNC_Polyhedron_iterator_t *ps*, ppl_const_Polyhedron_t * *d*) [related]

10.109.2.7 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_end (ppl_Pointset_Powerset_-NNC_Polyhedron_t *ps*, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t *psit*) [related]

10.109.2.8 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_equal_test (ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *y*) [related]

10.109.2.9 int ppl_Pointset_Powerset_NNC_Polyhedron_iterator_increment (ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.110 ppl_Pointset_Powerset_NNC_Polyhedron_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_NNC_Polyhedron_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)

- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_space_dimension (ppl_Pointset_-Powerset_NNC_Polyhedron_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Pointset_Powerset_NNC_Polyhedron (ppl_Pointset_Powerset_NNC_Polyhedron_t *pph, ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Pointset_-Powerset_NNC_Polyhedron_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Pointset_Powerset_NNC_Polyhedron_-with_complexity (ppl_Pointset_Powerset_NNC_Polyhedron_t *pph, ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, int complexity)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Pointset_Powerset_NNC_Polyhedron_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Constraint_System (ppl_Pointset_-Powerset_NNC_Polyhedron_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Congruence_System (ppl_Pointset_-Powerset_NNC_Polyhedron_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_space_dimension (ppl_const_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_NNC_Polyhedron_affine_dimension (ppl_const_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Constraint (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Generator (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Congruence (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_empty (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_universe (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_bounded (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_contains_integer_point (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_topologically_closed (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_discrete (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_topological_closure_assign (ppl_Pointset_-Powerset_NNC_Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_pairwise_reduce (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_omega_reduce (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_bounds_from_above (ppl_const_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_NNC_Polyhedron_bounds_from_below (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_NNC_Polyhedron_maximize (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)

- int ppl_Pointset_Powerset_NNC_Polyhedron_minimize (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_NNC_Polyhedron_maximize_with_point (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_NNC_Polyhedron_minimize_with_point (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_NNC_Polyhedron_contains_Pointset_Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_-Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_strictly_contains_Pointset_Powerset_NNC_-Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_-NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_is_disjoint_from_Pointset_Powerset_NNC_-Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_-NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_geometrically_covers_Pointset_Powerset_NNC_-Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_-NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_geometrically_equals_Pointset_Powerset_NNC_-Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_-NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_equals_Pointset_Powerset_NNC_Polyhedron (ppl_-const_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_OK (ppl_const_Pointset_Powerset_NNC_-Polyhedron_t ph)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_constraint (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_congruence (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_constraints (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_congruences (ppl_Pointset_Powerset_NNC_-Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_constraint (ppl_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_congruence (ppl_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_constraints (ppl_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_congruences (ppl_Pointset_Powerset_-NNC_Polyhedron_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_intersection_assign (ppl_Pointset_Powerset_NNC_-Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_upper_bound_assign (ppl_Pointset_Powerset_-NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_difference_assign (ppl_Pointset_Powerset_NNC_-Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)

- int ppl_Pointset_Powerset_NNC_Polyhedron_concatenate_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_time_elapse_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_upper_bound_assign_if_exact (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_simplify_using_context_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_constrains (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_NNC_Polyhedron_unconstrain_space_dimension (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_NNC_Polyhedron_unconstrain_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_NNC_Polyhedron_affine_image (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_bounded_affine_image (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_bounded_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_image (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_space_dimensions_and_embed (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_space_dimensions_and_project (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_remove_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_NNC_Polyhedron_remove_higher_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_expand_space_dimension (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_NNC_Polyhedron_fold_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_map_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type maps[ ], size_t n)

- int ppl_Pointset_Powerset_NNC_Polyhedron_drop_some_non_integer_points (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, int complexity)
- int ppl_Pointset_Powerset_NNC_Polyhedron_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_NNC_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_NNC_Polyhedron_external_memory_in_bytes (ppl_const_Pointset_Powerset_NNC_Polyhedron_t ps, size_t *sz)
- int ppl_Pointset_Powerset_NNC_Polyhedron_total_memory_in_bytes (ppl_const_Pointset_Powerset_NNC_Polyhedron_t ps, size_t *sz)
- int ppl_Pointset_Powerset_NNC_Polyhedron_size (ppl_const_Pointset_Powerset_NNC_Polyhedron_t ps, size_t *sz)
- int ppl_Pointset_Powerset_NNC_Polyhedron_add_disjunct (ppl_Pointset_Powerset_NNC_Polyhedron_t ps, ppl_const_Polyhedron_t d)
- int ppl_Pointset_Powerset_NNC_Polyhedron_drop_disjunct (ppl_Pointset_Powerset_NNC_Polyhedron_t ps, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t cit, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t it)
- int ppl_Pointset_Powerset_NNC_Polyhedron_drop_disjuncts (ppl_Pointset_Powerset_NNC_Polyhedron_t ps, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t first, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t last)
- int ppl_Pointset_Powerset_NNC_Polyhedron_BHZ03_BHRZ03_BHRZ03_widening_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_BHZ03_H79_H79_widening_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y)
- int ppl_Pointset_Powerset_NNC_Polyhedron_BGP99_BHRZ03_extrapolation_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y, int disjuncts)
- int ppl_Pointset_Powerset_NNC_Polyhedron_BGP99_H79_extrapolation_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t x, ppl_const_Pointset_Powerset_NNC_Polyhedron_t y, int disjuncts)

10.110.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_NNC_Polyhedron_tag.

10.110.2 Friends And Related Function Documentation

10.110.2.1 int ppl_delete_Pointset_Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) `[related]`

10.110.2.2 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Congruence_System (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.110.2.3 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Constraint_System (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.110.2.4 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.110.2.5 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.110.2.6 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Pointset_Powerset_NNC_Polyhedron (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.7 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_Pointset_Powerset_NNC_Polyhedron_with_complexity (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, int *complexity*) [related]

10.110.2.8 int ppl_new_Pointset_Powerset_NNC_Polyhedron_from_space_dimension (ppl_Pointset_Powerset_NNC_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.110.2.9 int ppl_Pointset_Powerset_NNC_Polyhedron_add_congruence (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.110.2.10 int ppl_Pointset_Powerset_NNC_Polyhedron_add_congruences (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.110.2.11 int ppl_Pointset_Powerset_NNC_Polyhedron_add_constraint (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.110.2.12 int ppl_Pointset_Powerset_NNC_Polyhedron_add_constraints (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.110.2.13 int ppl_Pointset_Powerset_NNC_Polyhedron_add_disjunct (ppl_-Pointset_Powerset_NNC_Polyhedron_t *ps*, ppl_const_Polyhedron_t *d*) [related]

10.110.2.14 int ppl_Pointset_Powerset_NNC_Polyhedron_add_space_dimensions_and_embed (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.110.2.15 int ppl_Pointset_Powerset_NNC_Polyhedron_add_space_dimensions_and_project (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.110.2.16 int ppl_Pointset_Powerset_NNC_Polyhedron_affine_dimension (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.110.2.17 int ppl_Pointset_Powerset_NNC_Polyhedron_affine_image (ppl_Pointset_Powerset_-NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.110.2.18 int ppl_Pointset_Powerset_NNC_Polyhedron_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.110.2.19 int ppl_Pointset_Powerset_NNC_Polyhedron_BGP99_BHRZ03_-extrapolation_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*, int *disjuncts*) [related]

10.110.2.20 int ppl_Pointset_Powerset_NNC_Polyhedron_BGP99_H79_-extrapolation_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*, int *disjuncts*) [related]

10.110.2.21 int ppl_Pointset_Powerset_NNC_Polyhedron_BHZ03_BHRZ03_-BHRZ03_widening_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.22 int ppl_Pointset_Powerset_NNC_Polyhedron_BHZ03_H79_H79_-widening_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.23 int ppl_Pointset_Powerset_NNC_Polyhedron_bounded_affine_image (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.110.2.24 int ppl_Pointset_Powerset_NNC_Polyhedron_bounded_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.110.2.25 int ppl_Pointset_Powerset_NNC_Polyhedron_bounds_from_above (ppl_const_-Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.110.2.26 int ppl_Pointset_Powerset_NNC_Polyhedron_bounds_from_below (ppl_const_-Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.110.2.27 int ppl_Pointset_Powerset_NNC_Polyhedron_concatenate_assign (ppl_Pointset_-Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.28 int ppl_Pointset_Powerset_NNC_Polyhedron_constrains (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.110.2.29 int ppl_Pointset_Powerset_NNC_Polyhedron_contains_integer_point (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.30 int ppl_Pointset_Powerset_NNC_Polyhedron_contains_Pointset_Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.31 int ppl_Pointset_Powerset_NNC_Polyhedron_difference_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.32 int ppl_Pointset_Powerset_NNC_Polyhedron_drop_disjunct (ppl_Pointset_Powerset_NNC_Polyhedron_t *ps*, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *cit*, ppl_Pointset_Powerset_NNC_Polyhedron_iterator_t *it*) [related]

10.110.2.33 int ppl_Pointset_Powerset_NNC_Polyhedron_drop_disjuncts (ppl_Pointset_Powerset_NNC_Polyhedron_t *ps*, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *first*, ppl_const_Pointset_Powerset_NNC_Polyhedron_iterator_t *last*) [related]

10.110.2.34 int ppl_Pointset_Powerset_NNC_Polyhedron_drop_some_non_integer_points (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, int *complexity*) [related]

10.110.2.35 int ppl_Pointset_Powerset_NNC_Polyhedron_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.110.2.36 int ppl_Pointset_Powerset_NNC_Polyhedron_equals_Pointset_Powerset_-NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.37 int ppl_Pointset_Powerset_NNC_Polyhedron_expand_space_dimension (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.110.2.38 int ppl_Pointset_Powerset_NNC_Polyhedron_external_memory_in_bytes (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ps*, size_t * *sz*) [related]

10.110.2.39 int ppl_Pointset_Powerset_NNC_Polyhedron_fold_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.110.2.40 int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_image (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.110.2.41 int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.110.2.42 int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_preimage (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.110.2.43 int ppl_Pointset_Powerset_NNC_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.110.2.44 int ppl_Pointset_Powerset_NNC_Polyhedron_geometrically_covers_Pointset_-Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.45 int ppl_Pointset_Powerset_NNC_Polyhedron_geometrically_equals_Pointset_-Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.46 int ppl_Pointset_Powerset_NNC_Polyhedron_intersection_assign (ppl_Pointset_-Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.47 int ppl_Pointset_Powerset_NNC_Polyhedron_is_bounded (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.48 int ppl_Pointset_Powerset_NNC_Polyhedron_is_discrete (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.49 int ppl_Pointset_Powerset_NNC_Polyhedron_is_disjoint_from_Pointset_-Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.50 int ppl_Pointset_Powerset_NNC_Polyhedron_is_empty (ppl_const_Pointset_-Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.51 int ppl_Pointset_Powerset_NNC_Polyhedron_is_topologically_closed (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.52 int ppl_Pointset_Powerset_NNC_Polyhedron_is_universe (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.53 int ppl_Pointset_Powerset_NNC_Polyhedron_map_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.110.2.54 int ppl_Pointset_Powerset_NNC_Polyhedron_maximize (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.110.2.55 int ppl_Pointset_Powerset_NNC_Polyhedron_maximize_with_point (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.110.2.56 int ppl_Pointset_Powerset_NNC_Polyhedron_minimize (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.110.2.57 int ppl_Pointset_Powerset_NNC_Polyhedron_minimize_with_point (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.110.2.58 int ppl_Pointset_Powerset_NNC_Polyhedron_OK (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.59 int ppl_Pointset_Powerset_NNC_Polyhedron_omega_reduce (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.60 int ppl_Pointset_Powerset_NNC_Polyhedron_pairwise_reduce (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.61 int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_congruence (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.110.2.62 int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_congruences (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.110.2.63 int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_constraint (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.110.2.64 int ppl_Pointset_Powerset_NNC_Polyhedron_refine_with_constraints (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.110.2.65 int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Congruence (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.110.2.66 int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Constraint (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

10.110.2.67 int ppl_Pointset_Powerset_NNC_Polyhedron_relation_with_Generator (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_const_Generator_t *c*) [related]

10.110.2.68 int ppl_Pointset_Powerset_NNC_Polyhedron_remove_higher_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

10.110.2.69 int ppl_Pointset_Powerset_NNC_Polyhedron_remove_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.110.2.70 int ppl_Pointset_Powerset_NNC_Polyhedron_simplify_using_-context_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.71 int ppl_Pointset_Powerset_NNC_Polyhedron_size (ppl_const_Pointset_Powerset_-NNC_Polyhedron_t *ps*, size_t * *sz*) [related]

10.110.2.72 int ppl_Pointset_Powerset_NNC_Polyhedron_space_dimension (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type * *m*) [related]

10.110.2.73 int ppl_Pointset_Powerset_NNC_Polyhedron_strictly_contains_Pointset_-Powerset_NNC_Polyhedron (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.74 int ppl_Pointset_Powerset_NNC_Polyhedron_time_elapse_assign (ppl_Pointset_-Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.75 int ppl_Pointset_Powerset_NNC_Polyhedron_topological_closure_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*) [related]

10.110.2.76 int ppl_Pointset_Powerset_NNC_Polyhedron_total_memory_in_bytes (ppl_const_Pointset_Powerset_NNC_Polyhedron_t *ps*, size_t ∗ *sz*) [related]

10.110.2.77 int ppl_Pointset_Powerset_NNC_Polyhedron_unconstrain_space_dimension (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

10.110.2.78 int ppl_Pointset_Powerset_NNC_Polyhedron_unconstrain_space_dimensions (ppl_Pointset_Powerset_NNC_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.110.2.79 int ppl_Pointset_Powerset_NNC_Polyhedron_upper_bound_assign (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

10.110.2.80 int ppl_Pointset_Powerset_NNC_Polyhedron_upper_bound_assign_if_exact (ppl_Pointset_Powerset_NNC_Polyhedron_t *x*, ppl_const_Pointset_Powerset_NNC_Polyhedron_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.111 ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t ps, ppl_const_Octagonal_Shape_double_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_double_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t psit)

10.111.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_double_tag.

10.111.2 Friends And Related Function Documentation

10.111.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_double_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *psit*) `[related]`

10.111.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t * *pit*) `[related]`

10.111.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *y*) `[related]`

10.111.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *psit*) [related]

10.111.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *psit*) [related]

10.111.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *ps*, ppl_const_Octagonal_Shape_double_t * *d*) [related]

10.111.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *psit*) [related]

10.111.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *y*) [related]

10.111.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_double_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.112 ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_double_-tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t ps, ppl_const_Octagonal_Shape_double_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_double_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t psit)

10.112.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_double_tag.

10.112.2 Friends And Related Function Documentation

10.112.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_double_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *psit*) [related]

10.112.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t * *pit*) [related]

10.112.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *y*) [related]

10.112.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *psit*) [related]

10.112.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *psit*) [related]

10.112.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *ps*, ppl_const_Octagonal_Shape_double_t ∗ *d*) [related]

10.112.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_-end (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *psit*) [related]

10.112.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *y*) [related]

10.112.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.113 ppl_Pointset_Powerset_Octagonal_Shape_double_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_space_dimension (ppl_Pointset_-Powerset_Octagonal_Shape_double_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Pointset_Powerset_Octagonal_-Shape_double (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Octagonal_Shape_double (ppl_-Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Pointset_Powerset_Octagonal_-Shape_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Octagonal_Shape_double_with_-complexity (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Octagonal_-Shape_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Constraint_System (ppl_-Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Congruence_System (ppl_-Pointset_Powerset_Octagonal_Shape_double_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_space_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Constraint (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Generator (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Congruence (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_empty (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_universe (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_bounded (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_contains_integer_point (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_topologically_closed (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_discrete (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_topological_closure_assign (ppl_Pointset_-Powerset_Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_pairwise_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_omega_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_bounds_from_above (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_bounds_from_below (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_maximize (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_minimize (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_-Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_maximize_with_point (ppl_const_Pointset_-Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_-t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_Octagonal_Shape_double_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_contains_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_strictly_contains_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_geometrically_covers_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_geometrically_equals_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_equals_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)

- int ppl_Pointset_Powerset_Octagonal_Shape_double_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_constrains (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)

- int ppl_Pointset_Powerset_Octagonal_Shape_double_external_memory_in_bytes (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_total_memory_in_bytes (ppl_const_-Pointset_Powerset_Octagonal_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_size (ppl_const_Pointset_Powerset_-Octagonal_Shape_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_add_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_double_t ps, ppl_const_Octagonal_Shape_double_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_double_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_disjuncts (ppl_Pointset_Powerset_-Octagonal_Shape_double_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_double_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_double_t y, int disjuncts)

10.113.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_double_tag.

10.113.2 Friends And Related Function Documentation

10.113.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Congruence_-System (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.113.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Constraint_-System (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.113.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Octagonal_-Shape_double (ppl_Pointset_Powerset_Octagonal_Shape_double_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.113.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Octagonal_Shape_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_double_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.113.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Pointset_Powerset_Octagonal_Shape_double (ppl_Pointset_Powerset_Octagonal_Shape_double_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_Pointset_Powerset_Octagonal_Shape_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_double_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.113.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_double_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.113.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.113.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.113.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.113.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.113.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_disjunct (ppl_Pointset_-Powerset_Octagonal_Shape_double_t *ps*, ppl_const_Octagonal_Shape_double_t *d*) [related]

10.113.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_space_dimensions_and_-embed (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.113.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_double_add_space_dimensions_and_-project (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.113.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type * *m*) [related]

10.113.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.113.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_double_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.113.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_double_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*, int *disjuncts*) [related]

10.113.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_double_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_double_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.113.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_double_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.113.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_double_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.113.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_double_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.113.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_double_concatenate_-assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_double_constrains (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.113.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_double_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_double_contains_Pointset_Powerset_-Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_double_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_double_iterator_t *it*) [related]

10.113.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_iterator_t *last*) [related]

10.113.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.113.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.113.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_double_equals_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_double_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.113.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_double_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ps*, size_t * *sz*) [related]

10.113.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_double_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.113.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.113.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_-image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.113.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.113.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_double_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.113.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_double_-geometrically_covers_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_double_-geometrically_equals_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_double_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_double_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_double_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.113.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_double_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.113.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_double_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.113.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_double_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.113.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_double_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.113.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_double_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*) `[related]`

10.113.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_double_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*) `[related]`

10.113.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_double_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*) `[related]`

10.113.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.113.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.113.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.113.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_double_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.113.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.113.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.113.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_double_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.113.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *d*) [related]

10.113.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_double_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.113.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_double_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_double_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_double_t *ps*, size_t * *sz*) [related]

10.113.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_double_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type * *m*) [related]

10.113.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_double_-strictly_contains_Pointset_Powerset_Octagonal_Shape_double (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_double_time_elapse_-assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_double_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*) [related]

10.113.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *ps*, size_t * *sz*) [related]

10.113.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_double_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *var*) [related]

10.113.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.113.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_double_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

10.113.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_double_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.114 ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t psit)

- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_decrement (ppl_Pointset_-Powerset_Octagonal_Shape_float_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_dereference (ppl_const_-Pointset_Powerset_Octagonal_Shape_float_const_iterator_t ps, ppl_const_Octagonal_Shape_-float_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_float_const_iterator (ppl_const_Pointset_-Powerset_Octagonal_Shape_float_const_iterator_t psit)

10.114.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_-float_tag.

10.114.2 Friends And Related Function Documentation

10.114.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_float_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *psit*) [related]

10.114.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t * *pit*) [related]

10.114.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_const_iterator_from_-const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *y*) [related]

10.114.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_-begin (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *psit*) [related]

10.114.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *psit*) [related]

10.114.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *ps*, ppl_const_Octagonal_Shape_float_t * *d*) [related]

10.114.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *psit*) [related]

10.114.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *y*) [related]

10.114.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_float_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.115 ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t ps, ppl_const_Octagonal_Shape_float_t *d)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_float_iterator (ppl_const_Pointset_Powerset_-Octagonal_Shape_float_iterator_t psit)

10.115.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_float_tag.

10.115.2 Friends And Related Function Documentation

10.115.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_float_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *psit*) [related]

10.115.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t ∗ *pit*) [related]

10.115.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *y*) [related]

10.115.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_Pointset_Powerset_-Octagonal_Shape_float_iterator_t *psit*) [related]

10.115.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t *psit*) [related]

10.115.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *ps*, ppl_const_Octagonal_Shape_float_t ∗ *d*) [related]

10.115.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_Pointset_Powerset_-Octagonal_Shape_float_iterator_t *psit*) [related]

10.115.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *y*) [related]

10.115.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.116 ppl_Pointset_Powerset_Octagonal_Shape_float_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_float_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Pointset_Powerset_Octagonal_Shape_float (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Pointset_Powerset_Octagonal_Shape_float_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Generator_t c)

- int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_contains_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_strictly_contains_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_geometrically_covers_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_geometrically_equals_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)

- int ppl_Pointset_Powerset_Octagonal_Shape_float_equals_Pointset_Powerset_Octagonal_Shape_-float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_-Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_OK (ppl_const_Pointset_Powerset_Octagonal_-Shape_float_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_constraint (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_congruence (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_constraints (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_congruences (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_constraint (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_congruence (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_constraints (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_congruences (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_intersection_assign (ppl_Pointset_Powerset_-Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_upper_bound_assign (ppl_Pointset_Powerset_-Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_difference_assign (ppl_Pointset_Powerset_-Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_concatenate_assign (ppl_Pointset_Powerset_-Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_time_elapse_assign (ppl_Pointset_Powerset_-Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_upper_bound_assign_if_exact (ppl_Pointset_-Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_simplify_using_context_assign (ppl_Pointset_-Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_constrains (ppl_Pointset_Powerset_Octagonal_-Shape_float_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_unconstrain_space_dimension (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_unconstrain_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_image (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_preimage (ppl_Pointset_Powerset_-Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_-const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_bounded_affine_image (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_bounded_affine_preimage (ppl_Pointset_-Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_float_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_size (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_const_Octagonal_Shape_float_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_float_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_float_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t y, int disjuncts)

10.116.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_float_tag.

10.116.2 Friends And Related Function Documentation

10.116.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) `[related]`

10.116.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.116.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.116.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Octagonal_Shape_float (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) `[related]`

10.116.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Octagonal_Shape_float_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) `[related]`

10.116.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Pointset_Powerset_Octagonal_Shape_float (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) `[related]`

10.116.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_Pointset_Powerset_Octagonal_Shape_float_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_float_t ∗ *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, int *complexity*) `[related]`

10.116.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_float_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_float_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.116.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.116.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.116.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.116.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.116.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_const_Octagonal_Shape_float_t *d*) [related]

10.116.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.116.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_float_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.116.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.116.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.116.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_float_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.116.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_float_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*, int *disjuncts*) [related]

10.116.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_float_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_float_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.116.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_float_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.116.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_float_bounds_from_above (ppl_const_-Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.116.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_float_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.116.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_float_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_float_constrains (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.116.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_float_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_float_contains_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_float_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_float_iterator_t *it*) [related]

10.116.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_iterator_t *last*) [related]

10.116.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.116.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_float_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.116.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_float_equals_Pointset_Powerset_-Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_float_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.116.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_float_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ps*, size_t * *sz*) [related]

10.116.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_float_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.116.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.116.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.116.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.116.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_float_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.116.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_float_geometrically_covers_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_float_geometrically_equals_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_float_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_disjoint_from_Pointset_-Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_-Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_float_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_float_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.116.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_float_maximize (ppl_const_Pointset_-Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.116.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_float_maximize_with_point (ppl_const_-Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.116.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_float_minimize (ppl_const_Pointset_-Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.116.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_float_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.116.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_float_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_float_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_float_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.116.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.116.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.116.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_float_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.116.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Congruence_t *c*) [related]

10.116.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Constraint_t *c*) [related]

10.116.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_float_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_const_Generator_t *c*) [related]

10.116.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_float_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *d*) [related]

10.116.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_float_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.116.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_float_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_float_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_float_t *ps*, size_t ∗ *sz*) [related]

10.116.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_float_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.116.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_float_strictly_contains_Pointset_Powerset_Octagonal_Shape_float (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_float_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_float_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*) [related]

10.116.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_float_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *ps*, size_t * *sz*) [related]

10.116.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_float_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *var*) [related]

10.116.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_float_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_float_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.116.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_float_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

10.116.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_float_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_float_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_float_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.117 ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int16_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t ps, ppl_const_Octagonal_Shape_int16_t_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t psit)

10.117.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int16_t_tag.

10.117.2 Friends And Related Function Documentation

10.117.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *psit*) `[related]`

10.117.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t ∗ *pit*) [related]

10.117.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_from_-const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *y*) [related]

10.117.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *psit*) [related]

10.117.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *psit*) [related]

10.117.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *ps*, ppl_const_Octagonal_Shape_int16_t_t ∗ *d*) [related]

10.117.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *psit*) [related]

10.117.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *y*) [related]

10.117.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.118 ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int16_t_-tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_iterator (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_from_iterator (ppl_Pointset_-Powerset_Octagonal_Shape_int16_t_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_-Shape_int16_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_begin (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_end (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_equal_test (ppl_const_Pointset_-Powerset_Octagonal_Shape_int16_t_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_int16_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_increment (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_decrement (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_dereference (ppl_const_Pointset_-Powerset_Octagonal_Shape_int16_t_iterator_t ps, ppl_const_Octagonal_Shape_int16_t_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t_iterator (ppl_const_Pointset_-Powerset_Octagonal_Shape_int16_t_iterator_t psit)

10.118.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int16_t_-tag.

10.118.2 Friends And Related Function Documentation

10.118.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *psit*) `[related]`

10.118.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t * *pit*) `[related]`

10.118.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *y*) [related]

10.118.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_-begin (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *psit*) [related]

10.118.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *psit*) [related]

10.118.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *ps*, ppl_const_Octagonal_Shape_int16_t_t * *d*) [related]

10.118.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_-end (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *psit*) [related]

10.118.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *y*) [related]

10.118.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.119 ppl_Pointset_Powerset_Octagonal_Shape_int16_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int16_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Pointset_Powerset_Octagonal_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_contains_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_equals_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_remove_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_remove_higher_space_dimensions (ppl_-Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_expand_space_dimension (ppl_Pointset_-Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_fold_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_map_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_some_non_integer_points (ppl_-Pointset_Powerset_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_some_non_integer_points_2 (ppl_-Pointset_Powerset_Octagonal_Shape_int16_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_external_memory_in_bytes (ppl_const_-Pointset_Powerset_Octagonal_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_total_memory_in_bytes (ppl_const_-Pointset_Powerset_Octagonal_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_size (ppl_const_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, ppl_const_Octagonal_Shape_int16_t_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_disjuncts (ppl_Pointset_Powerset_-Octagonal_Shape_int16_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_int16_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_int16_t_t y, int disjuncts)

10.119.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int16_t_tag.

10.119.2 Friends And Related Function Documentation

10.119.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.119.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.119.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Octagonal_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.119.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_Pointset_Powerset_Octagonal_Shape_int16_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.119.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_int16_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.119.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.119.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.119.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.119.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.119.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_const_Octagonal_Shape_int16_t_t *d*) [related]

10.119.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.119.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.119.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type * *m*) [related]

10.119.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.119.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.119.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*, int *disjuncts*) [related]

10.119.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.119.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.119.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.119.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.119.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.119.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_contains_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *it*) [related]

10.119.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_iterator_t *last*) [related]

10.119.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.119.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.119.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_equals_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.119.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, size_t ∗ *sz*) [related]

10.119.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.119.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.119.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.119.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.119.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.119.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_-geometrically_covers_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_-geometrically_equals_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_intersection_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_-disjoint_from_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.119.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_maximize (ppl_const_Pointset_-Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.119.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.119.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_minimize (ppl_const_Pointset_-Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.119.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.119.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) `[related]`

10.119.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) `[related]`

10.119.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) `[related]`

10.119.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.119.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_congruences (ppl_-Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.119.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.119.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_refine_with_constraints (ppl_-Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.119.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.119.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.119.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.119.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_remove_higher_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *d*) [related]

10.119.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.119.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, size_t * *sz*) [related]

10.119.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type * *m*) [related]

10.119.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int16_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*) [related]

10.119.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *ps*, size_t * *sz*) [related]

10.119.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *var*) [related]

10.119.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.119.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

10.119.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_int16_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int16_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int16_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.120 ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t ps, ppl_const_Octagonal_Shape_int32_t_t ∗d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t psit)

10.120.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

10.120.2 Friends And Related Function Documentation

10.120.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *psit*) `[related]`

10.120.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t * *pit*) [related]

10.120.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *y*) [related]

10.120.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *psit*) [related]

10.120.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *psit*) [related]

10.120.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *ps*, ppl_const_Octagonal_Shape_int32_t_t * *d*) [related]

10.120.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *psit*) [related]

10.120.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *y*) [related]

10.120.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.121 ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t ps, ppl_const_Octagonal_Shape_int32_t_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t psit)

10.121.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

10.121.2 Friends And Related Function Documentation

10.121.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *psit*) [related]

10.121.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t * *pit*) [related]

10.121.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *y*) [related]

10.121.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *psit*) [related]

10.121.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *psit*) [related]

10.121.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *ps*, ppl_const_Octagonal_Shape_int32_t_t * *d*) [related]

10.121.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *psit*) [related]

10.121.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *y*) [related]

10.121.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.122 ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Pointset_Powerset_Octagonal_Shape_int32_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Octagonal_Shape_int32_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_contains_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_equals_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_size (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_const_Octagonal_Shape_int32_t_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t y, int disjuncts)

10.122.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int32_t_tag.

10.122.2 Friends And Related Function Documentation

10.122.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Congruence_-System (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.122.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Constraint_-System (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.122.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Octagonal_-Shape_int32_t (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Octagonal_Shape_-int32_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.122.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_Pointset_Powerset_-Octagonal_Shape_int32_t (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_-Pointset_Powerset_Octagonal_Shape_int32_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_const_-Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.122.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_int32_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.122.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.122.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.122.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.122.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.122.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_const_Octagonal_Shape_int32_t_t *d*) [related]

10.122.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.122.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.122.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.122.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.122.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.122.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*, int *disjuncts*) [related]

10.122.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.122.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.122.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.122.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.122.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.122.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_contains_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *it*) [related]

10.122.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_iterator_t *last*) [related]

10.122.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.122.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.122.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_equals_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.122.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, size_t ∗ *sz*) [related]

10.122.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.122.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.122.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.122.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.122.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.122.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.122.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.122.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.122.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.122.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.122.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.122.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_congruences (ppl_-Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.122.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.122.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_refine_with_constraints (ppl_-Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.122.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.122.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.122.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.122.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_remove_higher_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *d*) [related]

10.122.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.122.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.122.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type * *m*) [related]

10.122.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int32_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*) [related]

10.122.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *ps*, size_t * *sz*) [related]

10.122.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *var*) [related]

10.122.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.122.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

10.122.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_int32_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int32_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int32_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.123 ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int64_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t ps, ppl_const_Octagonal_Shape_int64_t_t ∗d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t psit)

10.123.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int64_t_tag.

10.123.2 Friends And Related Function Documentation

10.123.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *psit*) `[related]`

10.123.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t * *pit*) [related]

10.123.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_from_-const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *y*) [related]

10.123.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *psit*) [related]

10.123.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *psit*) [related]

10.123.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *ps*, ppl_const_Octagonal_Shape_int64_t_t * *d*) [related]

10.123.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *psit*) [related]

10.123.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *y*) [related]

10.123.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.124 ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int64_t_-tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_iterator (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_from_iterator (ppl_Pointset_-Powerset_Octagonal_Shape_int64_t_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_-Shape_int64_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_begin (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_end (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_equal_test (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_int64_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_increment (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_decrement (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_dereference (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_iterator_t ps, ppl_const_Octagonal_Shape_int64_t_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t_iterator (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_iterator_t psit)

10.124.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int64_t_-tag.

10.124.2 Friends And Related Function Documentation

10.124.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *psit*) [related]

10.124.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t * *pit*) [related]

10.124.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *y*) [related]

10.124.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_-begin (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *psit*) [related]

10.124.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *psit*) [related]

10.124.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *ps*, ppl_const_Octagonal_Shape_int64_t_t * *d*) [related]

10.124.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_-end (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *psit*) [related]

10.124.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *y*) [related]

10.124.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.125 ppl_Pointset_Powerset_Octagonal_Shape_int64_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int64_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_space_dimension (ppl_Pointset_-Powerset_Octagonal_Shape_int64_t_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Pointset_Powerset_Octagonal_-Shape_int64_t (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_-Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Pointset_Powerset_Octagonal_-Shape_int64_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t_with_-complexity (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Octagonal_-Shape_int64_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Constraint_System (ppl_-Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Congruence_System (ppl_-Pointset_Powerset_Octagonal_Shape_int64_t_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_space_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Constraint (ppl_const_-Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Generator (ppl_const_-Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Congruence (ppl_const_-Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_empty (ppl_const_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_universe (ppl_const_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_bounded (ppl_const_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_contains_integer_point (ppl_const_Pointset_-Powerset_Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_topologically_closed (ppl_const_-Pointset_Powerset_Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_discrete (ppl_const_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_topological_closure_assign (ppl_Pointset_-Powerset_Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_pairwise_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_omega_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_int64_t_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_contains_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_equals_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_size (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, ppl_const_Octagonal_Shape_int64_t_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t y, int disjuncts)

10.125.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int64_t_tag.

10.125.2 Friends And Related Function Documentation

10.125.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.125.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.125.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Octagonal_Shape_int64_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.125.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_Pointset_Powerset_Octagonal_Shape_int64_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.125.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_int64_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.125.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.125.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.125.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.125.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.125.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_const_Octagonal_Shape_int64_t_t *d*) [related]

10.125.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.125.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.125.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.125.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.125.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.125.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*, int *disjuncts*) `[related]`

10.125.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.125.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.125.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.125.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.125.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_concatenate_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*) `[related]`

10.125.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) `[related]`

10.125.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_contains_Pointset_Powerset_-Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_difference_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_-const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *it*) `[related]`

10.125.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, ppl_-const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_iterator_t *last*) `[related]`

10.125.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, int *complexity*) `[related]`

10.125.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.125.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_equals_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.125.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.125.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.125.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.125.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.125.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.125.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.125.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_-geometrically_covers_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_-geometrically_equals_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_intersection_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) `[related]`

10.125.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) `[related]`

10.125.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) `[related]`

10.125.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.125.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.125.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.125.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.125.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.125.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.125.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_congruences (ppl_-Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.125.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.125.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_refine_with_constraints (ppl_-Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.125.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.125.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.125.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.125.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_remove_higher_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *d*) [related]

10.125.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.125.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, size_t * *sz*) [related]

10.125.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type * *m*) [related]

10.125.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int64_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*) [related]

10.125.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *ps*, size_t ∗ *sz*) [related]

10.125.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *var*) [related]

10.125.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.125.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

10.125.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_int64_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int64_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int64_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.126 ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t ps, ppl_const_Octagonal_Shape_int8_t_t ∗d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t psit)

10.126.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

10.126.2 Friends And Related Function Documentation

10.126.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *psit*) `[related]`

10.126.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t * *pit*) `[related]`

10.126.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *y*) `[related]`

10.126.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *psit*) `[related]`

10.126.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *psit*) `[related]`

10.126.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *ps*, ppl_const_Octagonal_Shape_int8_t_t * *d*) `[related]`

10.126.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *psit*) `[related]`

10.126.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *y*) `[related]`

10.126.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_const_iterator_t *psit*) `[related]`

The documentation for this interface was generated from the following file:

- ppl_c.h

10.127 ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t ps, ppl_const_Octagonal_Shape_int8_t_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t psit)

10.127.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

10.127.2 Friends And Related Function Documentation

10.127.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *psit*) `[related]`

10.127.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t * *pit*) `[related]`

10.127.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *y*) [related]

10.127.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *psit*) [related]

10.127.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *psit*) [related]

10.127.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *ps*, ppl_const_Octagonal_Shape_int8_t_t ∗ *d*) [related]

10.127.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *psit*) [related]

10.127.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *y*) [related]

10.127.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.128 ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_space_dimension (ppl_Pointset_-Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Pointset_Powerset_Octagonal_-Shape_int8_t (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_-Pointset_Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Pointset_Powerset_Octagonal_-Shape_int8_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_-const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t_with_-complexity (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Octagonal_-Shape_int8_t_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Constraint_System (ppl_Pointset_-Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Congruence_System (ppl_-Pointset_Powerset_Octagonal_Shape_int8_t_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_space_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_dimension (ppl_const_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Constraint (ppl_const_-Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Generator (ppl_const_-Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Congruence (ppl_const_-Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_empty (ppl_const_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_universe (ppl_const_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_bounded (ppl_const_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_contains_integer_point (ppl_const_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_topologically_closed (ppl_const_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_discrete (ppl_const_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_topological_closure_assign (ppl_Pointset_-Powerset_Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_pairwise_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_omega_reduce (ppl_Pointset_Powerset_-Octagonal_Shape_int8_t_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_contains_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_strictly_contains_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_equals_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_size (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_const_Octagonal_Shape_int8_t_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t y, int disjuncts)

10.128.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_int8_t_tag.

10.128.2 Friends And Related Function Documentation

10.128.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.128.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.128.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Octagonal_Shape_int8_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.128.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_Pointset_Powerset_Octagonal_Shape_int8_t_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.128.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_int8_t_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.128.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.128.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.128.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.128.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_constraints (ppl_Pointset_-Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.128.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_disjunct (ppl_Pointset_-Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_const_Octagonal_Shape_int8_t_t *d*) [related]

10.128.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_space_dimensions_and_-embed (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.128.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_add_space_dimensions_and_-project (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.128.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type * *m*) [related]

10.128.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.128.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.128.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*, int *disjuncts*) [related]

10.128.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.128.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.128.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.128.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.128.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_concatenate_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_constrains (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.128.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_contains_Pointset_Powerset_-Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_difference_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_-const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *it*) [related]

10.128.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, ppl_-const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_iterator_t *last*) [related]

10.128.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.128.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_drop_some_non_integer_-points_2 (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.128.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_equals_Pointset_Powerset_-Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.128.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.128.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.128.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.128.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_-image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.128.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.128.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.128.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_geometrically_covers_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_geometrically_equals_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.128.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.128.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.128.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.128.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.128.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.128.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_congruences (ppl_-Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.128.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.128.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_refine_with_constraints (ppl_-Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.128.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Congruence_t *c*) [related]

10.128.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Constraint_t *c*) [related]

10.128.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_const_Generator_t *c*) [related]

10.128.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_remove_higher_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *d*) [related]

10.128.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.128.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_size (ppl_-const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.128.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type * *m*) [related]

10.128.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_strictly_contains_Pointset_-Powerset_Octagonal_Shape_int8_t (ppl_const_Pointset_Powerset_Octagonal_-Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_time_elapse_-assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*) [related]

10.128.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *ps*, size_t * *sz*) [related]

10.128.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *var*) [related]

10.128.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.128.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

10.128.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_int8_t_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_int8_t_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_int8_t_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.129 ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t ps, ppl_const_Octagonal_Shape_long_double_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t psit)

10.129.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag.

10.129.2 Friends And Related Function Documentation

10.129.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *psit*) [related]

10.129.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t * *pit*) [related]

10.129.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *y*) [related]

10.129.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *psit*) [related]

10.129.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *psit*) [related]

10.129.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *ps*, ppl_const_Octagonal_Shape_long_double_t ∗ *d*) [related]

10.129.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *psit*) [related]

10.129.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *y*) [related]

10.129.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_long_double_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.130 ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_iterator (ppl_Pointset_Powerset_-Octagonal_Shape_long_double_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_iterator_from_iterator (ppl_-Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *px, ppl_const_Pointset_Powerset_-Octagonal_Shape_long_double_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_begin (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_long_-double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_end (ppl_Pointset_Powerset_-Octagonal_Shape_long_double_t ps, ppl_Pointset_Powerset_Octagonal_Shape_long_double_-iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_equal_test (ppl_const_-Pointset_Powerset_Octagonal_Shape_long_double_iterator_t x, ppl_const_Pointset_Powerset_-Octagonal_Shape_long_double_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_increment (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_decrement (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_dereference (ppl_const_-Pointset_Powerset_Octagonal_Shape_long_double_iterator_t ps, ppl_const_Octagonal_Shape_-long_double_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double_iterator (ppl_const_Pointset_-Powerset_Octagonal_Shape_long_double_iterator_t psit)

10.130.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_long_-double_tag.

10.130.2 Friends And Related Function Documentation

10.130.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *psit*) `[related]`

10.130.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t * *pit*) `[related]`

10.130.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *y*) [related]

10.130.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *psit*) [related]

10.130.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *psit*) [related]

10.130.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *ps*, ppl_const_Octagonal_Shape_long_double_t ∗ *d*) [related]

10.130.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *psit*) [related]

10.130.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *y*) [related]

10.130.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.131 ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Pointset_Powerset_Octagonal_Shape_long_double (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Pointset_Powerset_Octagonal_Shape_long_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_contains_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_strictly_contains_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_geometrically_covers_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_geometrically_equals_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_equals_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)

- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_constrains (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_remove_space_dimensions (ppl_-Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_expand_space_dimension (ppl_-Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type d, ppl_dimension_-type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_fold_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_-type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_map_space_dimensions (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_some_non_integer_points (ppl_-Pointset_Powerset_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_external_memory_in_bytes (ppl_-const_Pointset_Powerset_Octagonal_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_total_memory_in_bytes (ppl_const_-Pointset_Powerset_Octagonal_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_size (ppl_const_Pointset_Powerset_-Octagonal_Shape_long_double_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_long_double_t ps, ppl_const_Octagonal_Shape_long_double_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_disjunct (ppl_Pointset_Powerset_-Octagonal_Shape_long_double_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_long_-double_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_disjuncts (ppl_Pointset_-Powerset_Octagonal_Shape_long_double_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_-long_double_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_-iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_BHZ03_H79_BHMZ05_widening_-assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_-Octagonal_Shape_long_double_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_long_double_BGP99_BHMZ05_extrapolation_-assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t x, ppl_const_Pointset_Powerset_-Octagonal_Shape_long_double_t y, int disjuncts)

10.131.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_long_double_tag.

10.131.2 Friends And Related Function Documentation

10.131.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.131.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.131.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Octagonal_Shape_long_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.131.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Pointset_Powerset_Octagonal_Shape_long_double (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_Pointset_Powerset_Octagonal_Shape_long_double_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.131.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_long_double_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.131.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.131.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.131.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.131.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.131.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_const_Octagonal_Shape_long_double_t *d*) [related]

10.131.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.131.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.131.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.131.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.131.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.131.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*, int *disjuncts*) [related]

10.131.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.131.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.131.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.131.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.131.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_concatenate_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_constrains (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.131.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_-contains_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *it*) [related]

10.131.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_iterator_t *last*) [related]

10.131.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_some_non_integer_-points (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.131.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_drop_some_non_-integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.131.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_-equals_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.131.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_external_memory_in_-bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, size_t ∗ *sz*) [related]

10.131.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.131.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.131.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.131.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.131.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.131.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_geometrically_covers_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_geometrically_equals_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_intersection_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.131.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.131.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.131.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.131.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.131.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.131.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.131.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.131.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.131.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Congruence_t *c*) [related]

10.131.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Constraint_t *c*) [related]

10.131.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_const_Generator_t *c*) [related]

10.131.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_remove_higher_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *d*) [related]

10.131.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.131.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_size (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.131.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type * *m*) [related]

10.131.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_-strictly_contains_Pointset_Powerset_Octagonal_Shape_long_double (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*) [related]

10.131.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *ps*, size_t * *sz*) [related]

10.131.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_unconstrain_-space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *var*) [related]

10.131.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_unconstrain_-space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.131.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

10.131.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_long_double_upper_bound_-assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_long_double_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_long_double_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.132 ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_-mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t ∗px, ppl_const_Pointset_-Powerset_Octagonal_Shape_mpq_class_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_begin (ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_-mpq_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_end (ppl_const_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpq_-class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_equal_test (ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t x, ppl_const_Pointset_-Powerset_Octagonal_Shape_mpq_class_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_increment (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_decrement (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_dereference (ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t ps, ppl_const_Octagonal_-Shape_mpq_class_t ∗d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator (ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t psit)

10.132.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_-mpq_class_tag.

10.132.2 Friends And Related Function Documentation

10.132.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *psit*) [related]

10.132.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t * *pit*) [related]

10.132.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_from_-const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *y*) [related]

10.132.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *psit*) [related]

10.132.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *psit*) [related]

10.132.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *ps*, ppl_const_Octagonal_Shape_mpq_class_t * *d*) [related]

10.132.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *psit*) [related]

10.132.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *y*) [related]

10.132.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.133 ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t y)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_increment (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_decrement (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_dereference (ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t ps, ppl_const_Octagonal_Shape_-mpq_class_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator (ppl_const_Pointset_-Powerset_Octagonal_Shape_mpq_class_iterator_t psit)

10.133.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_mpq_-class_tag.

10.133.2 Friends And Related Function Documentation

10.133.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *psit*) [related]

10.133.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t * *pit*) [related]

10.133.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *y*) [related]

10.133.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_-begin (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *psit*) [related]

10.133.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *psit*) [related]

10.133.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *ps*, ppl_const_Octagonal_Shape_mpq_class_t ∗ *d*) [related]

10.133.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *psit*) [related]

10.133.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *y*) [related]

10.133.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.134 ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Pointset_Powerset_Octagonal_Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, int complexity)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_contains_Pointset_Powerset_Octagonal_-Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_strictly_contains_Pointset_Powerset_-Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_disjoint_from_Pointset_Powerset_-Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_geometrically_covers_Pointset_-Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_-class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_geometrically_equals_Pointset_-Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_-class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_equals_Pointset_Powerset_Octagonal_-Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_-Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_OK (ppl_const_Pointset_Powerset_-Octagonal_Shape_mpq_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_constraint (ppl_Pointset_Powerset_-Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_congruence (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_constraints (ppl_Pointset_Powerset_-Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_congruences (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_constraint (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_congruence (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_constraints (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_congruences (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_intersection_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_upper_bound_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_difference_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_concatenate_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_time_elapse_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpq_class_t y)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_constrains (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, int complexity)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_size (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_const_Octagonal_Shape_mpq_class_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t y, int disjuncts)

10.134.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_tag.

10.134.2 Friends And Related Function Documentation

10.134.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.134.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.134.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Octagonal_-Shape_mpq_class (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_Octagonal_-Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_-mpq_class_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.134.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_-class_from_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_-Pointset_Powerset_Octagonal_Shape_mpq_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.134.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpq_class_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.134.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.134.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.134.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.134.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.134.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_const_Octagonal_Shape_mpq_class_t *d*) [related]

10.134.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_space_dimensions_-and_embed (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.134.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_add_space_dimensions_-and_project (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.134.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type * *m*) [related]

10.134.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.134.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.134.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_BGP99_BHMZ05_-extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*, int *disjuncts*) [related]

10.134.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_BHZ03_H79_BHMZ05_-widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.134.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.134.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.134.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.134.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_concatenate_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_constrains (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.134.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_contains_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_difference_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *it*) [related]

10.134.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_iterator_t *last*) [related]

10.134.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.134.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) `[related]`

10.134.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_equals_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) `[related]`

10.134.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) `[related]`

10.134.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, size_t ∗ *sz*) `[related]`

10.134.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.134.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.134.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.134.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_-affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.134.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.134.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_-geometrically_covers_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_-geometrically_equals_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_intersection_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_-disjoint_from_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.134.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.134.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.134.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.134.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.134.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.134.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.134.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) `[related]`

10.134.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.134.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_-congruences (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.134.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.134.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_refine_with_-constraints (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.134.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.134.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.134.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.134.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *d*) [related]

10.134.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.134.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_simplify_using_context_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_size (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, size_t ∗ *sz*) [related]

10.134.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.134.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_strictly_contains_Pointset_Powerset_Octagonal_Shape_mpq_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_time_elapse_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*) [related]

10.134.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ps*, size_t * *sz*) [related]

10.134.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_unconstrain_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *var*) [related]

10.134.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.134.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

10.134.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_mpq_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpq_class_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.135 ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t ps, ppl_const_Octagonal_Shape_mpz_class_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t psit)

10.135.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

10.135.2 Friends And Related Function Documentation

10.135.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *psit*) `[related]`

10.135.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t * *pit*) [related]

10.135.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *y*) [related]

10.135.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_begin (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *psit*) [related]

10.135.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *psit*) [related]

10.135.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *ps*, ppl_const_Octagonal_Shape_mpz_class_t * *d*) [related]

10.135.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_end (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *psit*) [related]

10.135.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *y*) [related]

10.135.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.136 ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *px, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t psit)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t ps, ppl_const_Octagonal_Shape_mpz_class_t *d)
- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t psit)

10.136.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

10.136.2 Friends And Related Function Documentation

10.136.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *psit*) [related]

10.136.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t * *pit*) [related]

10.136.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_from_iterator (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t * *px*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *y*) [related]

10.136.2.4 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_begin (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *psit*) [related]

10.136.2.5 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_decrement (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *psit*) [related]

10.136.2.6 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_dereference (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *ps*, ppl_const_Octagonal_Shape_mpz_class_t * *d*) [related]

10.136.2.7 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_end (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *psit*) [related]

10.136.2.8 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_equal_test (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *y*) [related]

10.136.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_increment (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.137 ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Pointset_Powerset_Octagonal_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Constraint_System (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Congruence_System (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_contains_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_strictly_contains_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_disjoint_from_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_geometrically_covers_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_geometrically_equals_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_equals_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_constraint (ppl_Pointset_Powerset_-Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_congruence (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_constraints (ppl_Pointset_Powerset_-Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_congruences (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_constraint (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_congruence (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_constraints (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_congruences (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_intersection_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_upper_bound_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_difference_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_concatenate_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_time_elapse_assign (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_-mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_upper_bound_assign_if_exact (ppl_-Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_simplify_using_context_assign (ppl_-Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_-Shape_mpz_class_t y)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_constrains (ppl_Pointset_Powerset_-Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_unconstrain_space_dimension (ppl_-Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_unconstrain_space_dimensions (ppl_-Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_image (ppl_Pointset_Powerset_-Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_preimage (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounded_affine_image (ppl_Pointset_-Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_size (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_const_Octagonal_Shape_mpz_class_t d)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t cit, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t it)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ps, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t first, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t last)
- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t y)

- int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_BGP99_BHMZ05_extrapolation_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t x, ppl_const_Pointset_Powerset_-Octagonal_Shape_mpz_class_t y, int disjuncts)

10.137.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_tag.

10.137.2 Friends And Related Function Documentation

10.137.2.1 int ppl_delete_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.2 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Congruence_-System (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.137.2.3 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Constraint_-System (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.137.2.4 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Octagonal_-Shape_mpz_class (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.5 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_Octagonal_-Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_-mpz_class_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.137.2.6 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_-class_from_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.7 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_-Pointset_Powerset_Octagonal_Shape_mpz_class_with_complexity (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.137.2.8 int ppl_new_Pointset_Powerset_Octagonal_Shape_mpz_class_from_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.137.2.9 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_congruence (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.137.2.10 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_congruences (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.137.2.11 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_constraint (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.137.2.12 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_constraints (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.137.2.13 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_const_Octagonal_Shape_mpz_class_t *d*) [related]

10.137.2.14 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_space_dimensions_-and_embed (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.137.2.15 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_add_space_dimensions_and_project (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.137.2.16 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.137.2.17 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.137.2.18 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.137.2.19 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_BGP99_BHMZ05_extrapolation_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*, int *disjuncts*) [related]

10.137.2.20 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_BHZ03_H79_BHMZ05_widening_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.21 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounded_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.137.2.22 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounded_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.137.2.23 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounds_from_above (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.137.2.24 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_bounds_from_below (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.137.2.25 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_concatenate_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.26 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_constrains (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.137.2.27 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_contains_integer_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.28 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_-contains_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.29 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_difference_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.30 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_disjunct (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *cit*, ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *it*) [related]

10.137.2.31 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_disjuncts (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *first*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_iterator_t *last*) [related]

10.137.2.32 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_some_non_integer_points (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.137.2.33 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.137.2.34 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_equals_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.35 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_expand_space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.137.2.36 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_external_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, size_t * *sz*) [related]

10.137.2.37 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_fold_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.137.2.38 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_image (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.137.2.39 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_-image_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.137.2.40 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_preimage (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.137.2.41 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_generalized_affine_-preimage_lhs_rhs (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.137.2.42 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_-geometrically_covers_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) `[related]`

10.137.2.43 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_-geometrically_equals_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) `[related]`

10.137.2.44 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_intersection_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.45 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_bounded (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.46 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_discrete (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.47 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_-disjoint_from_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.48 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_empty (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.49 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_topologically_closed (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.50 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_is_universe (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.51 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_map_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.137.2.52 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_maximize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.137.2.53 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_maximize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.137.2.54 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_minimize (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.137.2.55 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_minimize_with_point (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.137.2.56 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_OK (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.57 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_omega_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.58 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_pairwise_reduce (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.59 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_congruence (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.137.2.60 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_congruences (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.137.2.61 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_constraint (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.137.2.62 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_refine_with_constraints (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.137.2.63 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Congruence (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Congruence_t *c*) [related]

10.137.2.64 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Constraint (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Constraint_t *c*) [related]

10.137.2.65 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_relation_with_Generator (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_const_Generator_t *c*) [related]

10.137.2.66 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_remove_higher_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *d*) [related]

10.137.2.67 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_remove_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.137.2.68 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_simplify_using_-context_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.69 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_size (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, size_t * *sz*) [related]

10.137.2.70 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_space_dimension (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type * *m*) [related]

10.137.2.71 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_-strictly_contains_Pointset_Powerset_Octagonal_Shape_mpz_class (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.72 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_time_elapse_-assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.73 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_topological_closure_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*) [related]

10.137.2.74 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_total_memory_in_bytes (ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ps*, size_t * *sz*) [related]

10.137.2.75 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_unconstrain_-space_dimension (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *var*) [related]

10.137.2.76 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_unconstrain_space_dimensions (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.137.2.77 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_upper_bound_assign (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

10.137.2.78 int ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Octagonal_Shape_mpz_class_t *x*, ppl_const_Pointset_Powerset_Octagonal_Shape_mpz_class_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.138 ppl_Pointset_Powerset_Rational_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Rational_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Rational_Box_const_iterator (ppl_Pointset_Powerset_Rational_Box_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Rational_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Rational_Box_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Rational_Box_t ps, ppl_Pointset_Powerset_Rational_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_end (ppl_const_Pointset_Powerset_Rational_Box_t ps, ppl_Pointset_Powerset_Rational_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_increment (ppl_Pointset_Powerset_Rational_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_decrement (ppl_Pointset_Powerset_Rational_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t ps, ppl_const_Rational_Box_t ∗d)

- int ppl_delete_Pointset_Powerset_Rational_Box_const_iterator (ppl_const_Pointset_Powerset_-Rational_Box_const_iterator_t psit)

10.138.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Rational_Box_tag.

10.138.2 Friends And Related Function Documentation

10.138.2.1 int ppl_delete_Pointset_Powerset_Rational_Box_const_iterator (ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t *psit*) [related]

10.138.2.2 int ppl_new_Pointset_Powerset_Rational_Box_const_iterator (ppl_Pointset_Powerset_Rational_Box_const_iterator_t * *pit*) [related]

10.138.2.3 int ppl_new_Pointset_Powerset_Rational_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Rational_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t *y*) [related]

10.138.2.4 int ppl_Pointset_Powerset_Rational_Box_const_iterator_begin (ppl_const_Pointset_-Powerset_Rational_Box_t *ps*, ppl_Pointset_Powerset_Rational_Box_const_iterator_t *psit*) [related]

10.138.2.5 int ppl_Pointset_Powerset_Rational_Box_const_iterator_decrement (ppl_Pointset_Powerset_Rational_Box_const_iterator_t *psit*) [related]

10.138.2.6 int ppl_Pointset_Powerset_Rational_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t *ps*, ppl_const_Rational_Box_t * *d*) [related]

10.138.2.7 int ppl_Pointset_Powerset_Rational_Box_const_iterator_end (ppl_const_Pointset_-Powerset_Rational_Box_t *ps*, ppl_Pointset_Powerset_Rational_Box_const_iterator_t *psit*) [related]

10.138.2.8 int ppl_Pointset_Powerset_Rational_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Rational_Box_const_iterator_t *y*) [related]

10.138.2.9 int ppl_Pointset_Powerset_Rational_Box_const_iterator_increment (ppl_Pointset_Powerset_Rational_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.139 ppl_Pointset_Powerset_Rational_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Rational_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Rational_Box_iterator (ppl_Pointset_Powerset_Rational_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Rational_Box_iterator_from_iterator (ppl_Pointset_Powerset_Rational_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Rational_Box_iterator_t y)
- int ppl_Pointset_Powerset_Rational_Box_iterator_begin (ppl_Pointset_Powerset_Rational_Box_t ps, ppl_Pointset_Powerset_Rational_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_iterator_end (ppl_Pointset_Powerset_Rational_Box_t ps, ppl_Pointset_Powerset_Rational_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Rational_Box_iterator_t x, ppl_const_Pointset_Powerset_Rational_Box_iterator_t y)
- int ppl_Pointset_Powerset_Rational_Box_iterator_increment (ppl_Pointset_Powerset_Rational_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_iterator_decrement (ppl_Pointset_Powerset_Rational_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Rational_Box_iterator_dereference (ppl_const_Pointset_Powerset_Rational_Box_iterator_t ps, ppl_const_Rational_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Rational_Box_iterator (ppl_const_Pointset_Powerset_Rational_Box_iterator_t psit)

10.139.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Rational_Box_tag.

10.139.2 Friends And Related Function Documentation

10.139.2.1 int ppl_delete_Pointset_Powerset_Rational_Box_iterator (ppl_const_Pointset_Powerset_Rational_Box_iterator_t *psit*) [related]

10.139.2.2 int ppl_new_Pointset_Powerset_Rational_Box_iterator (ppl_Pointset_Powerset_-Rational_Box_iterator_t * *pit*) [related]

10.139.2.3 int ppl_new_Pointset_Powerset_Rational_Box_iterator_from_-iterator (ppl_Pointset_Powerset_Rational_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Rational_Box_iterator_t *y*) [related]

10.139.2.4 int ppl_Pointset_Powerset_Rational_Box_iterator_begin (ppl_Pointset_Powerset_-Rational_Box_t *ps*, ppl_Pointset_Powerset_Rational_Box_iterator_t *psit*) [related]

10.139.2.5 int ppl_Pointset_Powerset_Rational_Box_iterator_decrement (ppl_Pointset_Powerset_Rational_Box_iterator_t *psit*) [related]

10.139.2.6 int ppl_Pointset_Powerset_Rational_Box_iterator_dereference (ppl_const_Pointset_Powerset_Rational_Box_iterator_t *ps*, ppl_const_Rational_Box_t * *d*) [related]

10.139.2.7 int ppl_Pointset_Powerset_Rational_Box_iterator_end (ppl_Pointset_Powerset_-Rational_Box_t *ps*, ppl_Pointset_Powerset_Rational_Box_iterator_t *psit*) [related]

10.139.2.8 int ppl_Pointset_Powerset_Rational_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Rational_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Rational_Box_iterator_t *y*) [related]

10.139.2.9 int ppl_Pointset_Powerset_Rational_Box_iterator_increment (ppl_Pointset_Powerset_Rational_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.140 ppl_Pointset_Powerset_Rational_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Rational_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_new_Pointset_Powerset_Rational_Box_from_space_dimension (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Pointset_Powerset_Rational_Box (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Rational_Box (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Pointset_Powerset_Rational_Box_with_complexity (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Pointset_Powerset_Rational_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Rational_Box_with_complexity (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Constraint_System (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Rational_Box_from_Congruence_System (ppl_Pointset_Powerset_Rational_Box_t ∗pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Rational_Box_space_dimension (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Rational_Box_affine_dimension (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Pointset_Powerset_Rational_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Rational_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Rational_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Rational_Box_is_empty (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_is_universe (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_is_bounded (ppl_const_Pointset_Powerset_Rational_Box_t ph)

- int ppl_Pointset_Powerset_Rational_Box_contains_integer_point (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_is_discrete (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_topological_closure_assign (ppl_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_pairwise_reduce (ppl_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_omega_reduce (ppl_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_bounds_from_above (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Rational_Box_bounds_from_below (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Rational_Box_maximize (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Rational_Box_minimize (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Rational_Box_maximize_with_point (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Rational_Box_minimize_with_point (ppl_const_Pointset_Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Rational_Box_contains_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_strictly_contains_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_is_disjoint_from_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_geometrically_covers_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_geometrically_equals_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_equals_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_OK (ppl_const_Pointset_Powerset_Rational_Box_t ph)
- int ppl_Pointset_Powerset_Rational_Box_add_constraint (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Rational_Box_add_congruence (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Rational_Box_add_constraints (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Rational_Box_add_congruences (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Rational_Box_refine_with_constraint (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_const_Constraint_t c)

- int ppl_Pointset_Powerset_Rational_Box_refine_with_congruence (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Rational_Box_refine_with_constraints (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Rational_Box_refine_with_congruences (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Rational_Box_intersection_assign (ppl_Pointset_Powerset_Rational_-Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_upper_bound_assign (ppl_Pointset_Powerset_Rational_-Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_difference_assign (ppl_Pointset_Powerset_Rational_-Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_concatenate_assign (ppl_Pointset_Powerset_Rational_-Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_time_elapse_assign (ppl_Pointset_Powerset_Rational_-Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_-Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_simplify_using_context_assign (ppl_Pointset_Powerset_-Rational_Box_t x, ppl_const_Pointset_Powerset_Rational_Box_t y)
- int ppl_Pointset_Powerset_Rational_Box_constrains (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Rational_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Rational_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Rational_Box_affine_image (ppl_Pointset_Powerset_Rational_Box_-t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_affine_preimage (ppl_Pointset_Powerset_Rational_-Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_bounded_affine_image (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_-Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_bounded_affine_preimage (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_-Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_generalized_affine_image (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_generalized_affine_preimage (ppl_Pointset_Powerset_-Rational_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Rational_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_-Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_-Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Rational_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_-Powerset_Rational_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_-Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Rational_Box_add_space_dimensions_and_embed (ppl_Pointset_-Powerset_Rational_Box_t ph, ppl_dimension_type d)

- int ppl_Pointset_Powerset_Rational_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Rational_Box_remove_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Rational_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Rational_Box_expand_space_dimension (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Rational_Box_fold_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Rational_Box_map_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Rational_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Rational_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Rational_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Rational_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Rational_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Rational_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Rational_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Rational_Box_size (ppl_const_Pointset_Powerset_Rational_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Rational_Box_add_disjunct (ppl_Pointset_Powerset_Rational_Box_t ps, ppl_const_Rational_Box_t d)
- int ppl_Pointset_Powerset_Rational_Box_drop_disjunct (ppl_Pointset_Powerset_Rational_Box_t ps, ppl_const_Pointset_Powerset_Rational_Box_iterator_t cit, ppl_Pointset_Powerset_Rational_Box_iterator_t it)
- int ppl_Pointset_Powerset_Rational_Box_drop_disjuncts (ppl_Pointset_Powerset_Rational_Box_t ps, ppl_const_Pointset_Powerset_Rational_Box_iterator_t first, ppl_const_Pointset_Powerset_Rational_Box_iterator_t last)

10.140.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Rational_Box_tag.

10.140.2 Friends And Related Function Documentation

10.140.2.1 int ppl_delete_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.2 int ppl_new_Pointset_Powerset_Rational_Box_from_Congruence_System (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.140.2.3 int ppl_new_Pointset_Powerset_Rational_Box_from_Constraint_System (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.140.2.4 int ppl_new_Pointset_Powerset_Rational_Box_from_Pointset_Powerset_Rational_Box (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.5 int ppl_new_Pointset_Powerset_Rational_Box_from_Pointset_Powerset_Rational_Box_with_complexity (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Pointset_Powerset_Rational_Box_t *ph*, int *complexity*) [related]

10.140.2.6 int ppl_new_Pointset_Powerset_Rational_Box_from_Rational_Box (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.140.2.7 int ppl_new_Pointset_Powerset_Rational_Box_from_Rational_Box_with_complexity (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.140.2.8 int ppl_new_Pointset_Powerset_Rational_Box_from_space_dimension (ppl_Pointset_Powerset_Rational_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.140.2.9 int ppl_Pointset_Powerset_Rational_Box_add_congruence (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.140.2.10 int ppl_Pointset_Powerset_Rational_Box_add_congruences (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.140.2.11 int ppl_Pointset_Powerset_Rational_Box_add_constraint (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.140.2.12 int ppl_Pointset_Powerset_Rational_Box_add_constraints (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.140.2.13 int ppl_Pointset_Powerset_Rational_Box_add_disjunct (ppl_Pointset_Powerset_Rational_Box_t *ps*, ppl_const_Rational_Box_t *d*) [related]

10.140.2.14 int ppl_Pointset_Powerset_Rational_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.140.2.15 int ppl_Pointset_Powerset_Rational_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.140.2.16 int ppl_Pointset_Powerset_Rational_Box_affine_dimension (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.140.2.17 int ppl_Pointset_Powerset_Rational_Box_affine_image (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.140.2.18 int ppl_Pointset_Powerset_Rational_Box_affine_preimage (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.140.2.19 int ppl_Pointset_Powerset_Rational_Box_bounded_affine_image (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.140.2.20 int ppl_Pointset_Powerset_Rational_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.140.2.21 int ppl_Pointset_Powerset_Rational_Box_bounds_from_above (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.140.2.22 int ppl_Pointset_Powerset_Rational_Box_bounds_from_below (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.140.2.23 int ppl_Pointset_Powerset_Rational_Box_concatenate_assign (ppl_Pointset_-Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.24 int ppl_Pointset_Powerset_Rational_Box_constrains (ppl_-Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*) [related]

10.140.2.25 int ppl_Pointset_Powerset_Rational_Box_contains_integer_point (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.26 int ppl_Pointset_Powerset_Rational_Box_contains_Pointset_Powerset_-Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.27 int ppl_Pointset_Powerset_Rational_Box_difference_assign (ppl_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.28 int ppl_Pointset_Powerset_Rational_Box_drop_disjunct (ppl_Pointset_Powerset_Rational_Box_t *ps*, ppl_const_Pointset_Powerset_Rational_Box_iterator_t *cit*, ppl_Pointset_Powerset_Rational_Box_iterator_t *it*) [related]

10.140.2.29 int ppl_Pointset_Powerset_Rational_Box_drop_disjuncts (ppl_Pointset_Powerset_Rational_Box_t *ps*, ppl_const_Pointset_Powerset_Rational_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Rational_Box_iterator_t *last*) [related]

10.140.2.30 int ppl_Pointset_Powerset_Rational_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Rational_Box_t *ph*, int *complexity*) [related]

10.140.2.31 int ppl_Pointset_Powerset_Rational_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.140.2.32 int ppl_Pointset_Powerset_Rational_Box_equals_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.33 int ppl_Pointset_Powerset_Rational_Box_expand_space_dimension (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.140.2.34 int ppl_Pointset_Powerset_Rational_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Rational_Box_t *ps*, size_t ∗ *sz*) [related]

10.140.2.35 int ppl_Pointset_Powerset_Rational_Box_fold_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) `[related]`

10.140.2.36 int ppl_Pointset_Powerset_Rational_Box_generalized_affine_image (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.140.2.37 int ppl_Pointset_Powerset_Rational_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.140.2.38 int ppl_Pointset_Powerset_Rational_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

10.140.2.39 int ppl_Pointset_Powerset_Rational_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

10.140.2.40 int ppl_Pointset_Powerset_Rational_Box_geometrically_covers_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) `[related]`

10.140.2.41 int ppl_Pointset_Powerset_Rational_Box_geometrically_equals_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) `[related]`

10.140.2.42 int ppl_Pointset_Powerset_Rational_Box_intersection_assign (ppl_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.43 int ppl_Pointset_Powerset_Rational_Box_is_bounded (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.44 int ppl_Pointset_Powerset_Rational_Box_is_discrete (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.45 int ppl_Pointset_Powerset_Rational_Box_is_disjoint_from_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.46 int ppl_Pointset_Powerset_Rational_Box_is_empty (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.47 int ppl_Pointset_Powerset_Rational_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.48 int ppl_Pointset_Powerset_Rational_Box_is_universe (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.49 int ppl_Pointset_Powerset_Rational_Box_map_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.140.2.50 int ppl_Pointset_Powerset_Rational_Box_maximize (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.140.2.51 int ppl_Pointset_Powerset_Rational_Box_maximize_with_point (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.140.2.52 int ppl_Pointset_Powerset_Rational_Box_minimize (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.140.2.53 int ppl_Pointset_Powerset_Rational_Box_minimize_with_point (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.140.2.54 int ppl_Pointset_Powerset_Rational_Box_OK (ppl_const_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.55 int ppl_Pointset_Powerset_Rational_Box_omega_reduce (ppl_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.56 int ppl_Pointset_Powerset_Rational_Box_pairwise_reduce (ppl_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.57 int ppl_Pointset_Powerset_Rational_Box_refine_with_congruence (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.140.2.58 int ppl_Pointset_Powerset_Rational_Box_refine_with_congruences (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.140.2.59 int ppl_Pointset_Powerset_Rational_Box_refine_with_constraint (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.140.2.60 int ppl_Pointset_Powerset_Rational_Box_refine_with_constraints (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.140.2.61 int ppl_Pointset_Powerset_Rational_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.140.2.62 int ppl_Pointset_Powerset_Rational_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.140.2.63 int ppl_Pointset_Powerset_Rational_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.140.2.64 int ppl_Pointset_Powerset_Rational_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.140.2.65 int ppl_Pointset_Powerset_Rational_Box_remove_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.140.2.66 int ppl_Pointset_Powerset_Rational_Box_simplify_using_context_assign (ppl_-Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.67 int ppl_Pointset_Powerset_Rational_Box_size (ppl_const_Pointset_Powerset_Rational_Box_t *ps*, size_t ∗ *sz*) [related]

10.140.2.68 int ppl_Pointset_Powerset_Rational_Box_space_dimension (ppl_const_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.140.2.69 int ppl_Pointset_Powerset_Rational_Box_strictly_contains_Pointset_Powerset_Rational_Box (ppl_const_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.70 int ppl_Pointset_Powerset_Rational_Box_time_elapse_assign (ppl_Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.71 int ppl_Pointset_Powerset_Rational_Box_topological_closure_assign (ppl_Pointset_Powerset_Rational_Box_t *ph*) [related]

10.140.2.72 int ppl_Pointset_Powerset_Rational_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Rational_Box_t *ps*, size_t ∗ *sz*) [related]

10.140.2.73 int ppl_Pointset_Powerset_Rational_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *var*) [related]

10.140.2.74 int ppl_Pointset_Powerset_Rational_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.140.2.75 int ppl_Pointset_Powerset_Rational_Box_upper_bound_assign (ppl_Pointset_-Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

10.140.2.76 int ppl_Pointset_Powerset_Rational_Box_upper_bound_assign_if_exact (ppl_-Pointset_Powerset_Rational_Box_t *x*, ppl_const_Pointset_Powerset_Rational_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.141 ppl_Pointset_Powerset_Uint16_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint16_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint16_Box_const_iterator (ppl_Pointset_Powerset_Uint16_Box_-const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Uint16_Box_const_iterator_from_const_iterator (ppl_Pointset_-Powerset_Uint16_Box_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Uint16_Box_const_-iterator_t y)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_begin (ppl_const_Pointset_Powerset_-Uint16_Box_t ps, ppl_Pointset_Powerset_Uint16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_end (ppl_const_Pointset_Powerset_-Uint16_Box_t ps, ppl_Pointset_Powerset_Uint16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_-Uint16_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_increment (ppl_Pointset_Powerset_-Uint16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_decrement (ppl_Pointset_Powerset_-Uint16_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_const_iterator_dereference (ppl_const_Pointset_-Powerset_Uint16_Box_const_iterator_t ps, ppl_const_Uint16_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Uint16_Box_const_iterator (ppl_const_Pointset_Powerset_-Uint16_Box_const_iterator_t psit)

10.141.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint16_Box_tag.

10.141.2 Friends And Related Function Documentation

10.141.2.1 int ppl_delete_Pointset_Powerset_Uint16_Box_const_iterator (ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t *psit*) [related]

10.141.2.2 int ppl_new_Pointset_Powerset_Uint16_Box_const_iterator (ppl_Pointset_Powerset_Uint16_Box_const_iterator_t ∗ *pit*) [related]

10.141.2.3 int ppl_new_Pointset_Powerset_Uint16_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint16_Box_const_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t *y*) [related]

10.141.2.4 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint16_Box_t *ps*, ppl_Pointset_Powerset_Uint16_Box_const_iterator_t *psit*) [related]

10.141.2.5 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint16_Box_const_iterator_t *psit*) [related]

10.141.2.6 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t *ps*, ppl_const_Uint16_Box_t ∗ *d*) [related]

10.141.2.7 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint16_Box_t *ps*, ppl_Pointset_Powerset_Uint16_Box_const_iterator_t *psit*) [related]

10.141.2.8 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_const_iterator_t *y*) [related]

10.141.2.9 int ppl_Pointset_Powerset_Uint16_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint16_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.142 ppl_Pointset_Powerset_Uint16_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint16_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint16_Box_iterator (ppl_Pointset_Powerset_Uint16_Box_-iterator_t *pit)
- int ppl_new_Pointset_Powerset_Uint16_Box_iterator_from_iterator (ppl_Pointset_Powerset_-Uint16_Box_iterator_t *px, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_begin (ppl_Pointset_Powerset_Uint16_Box_t ps, ppl_Pointset_Powerset_Uint16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_end (ppl_Pointset_Powerset_Uint16_Box_t ps, ppl_Pointset_Powerset_Uint16_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_equal_test (ppl_const_Pointset_Powerset_-Uint16_Box_iterator_t x, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_increment (ppl_Pointset_Powerset_Uint16_Box_-iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_decrement (ppl_Pointset_Powerset_Uint16_Box_-iterator_t psit)
- int ppl_Pointset_Powerset_Uint16_Box_iterator_dereference (ppl_const_Pointset_Powerset_-Uint16_Box_iterator_t ps, ppl_const_Uint16_Box_t *d)
- int ppl_delete_Pointset_Powerset_Uint16_Box_iterator (ppl_const_Pointset_Powerset_Uint16_-Box_iterator_t psit)

10.142.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint16_Box_tag.

10.142.2 Friends And Related Function Documentation

10.142.2.1 int ppl_delete_Pointset_Powerset_Uint16_Box_iterator (ppl_const_Pointset_Powerset_-Uint16_Box_iterator_t *psit*) [related]

10.142.2.2 int ppl_new_Pointset_Powerset_Uint16_Box_iterator (ppl_Pointset_Powerset_Uint16_-Box_iterator_t ∗ *pit*) [related]

10.142.2.3 int ppl_new_Pointset_Powerset_Uint16_Box_iterator_from_iterator (ppl_Pointset_Powerset_Uint16_Box_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_-Uint16_Box_iterator_t *y*) [related]

10.142.2.4 int ppl_Pointset_Powerset_Uint16_Box_iterator_begin (ppl_Pointset_-Powerset_Uint16_Box_t *ps*, ppl_Pointset_Powerset_Uint16_Box_iterator_t *psit*) [related]

10.142.2.5 int ppl_Pointset_Powerset_Uint16_Box_iterator_decrement (ppl_Pointset_Powerset_Uint16_Box_iterator_t *psit*) [related]

10.142.2.6 int ppl_Pointset_Powerset_Uint16_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Uint16_Box_iterator_t *ps*, ppl_const_Uint16_Box_t ∗ *d*) [related]

10.142.2.7 int ppl_Pointset_Powerset_Uint16_Box_iterator_end (ppl_Pointset_Powerset_-Uint16_Box_t *ps*, ppl_Pointset_Powerset_Uint16_Box_iterator_t *psit*) [related]

10.142.2.8 int ppl_Pointset_Powerset_Uint16_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Uint16_Box_iterator_t *x*, ppl_const_Pointset_-Powerset_Uint16_Box_iterator_t *y*) [related]

10.142.2.9 int ppl_Pointset_Powerset_Uint16_Box_iterator_increment (ppl_Pointset_Powerset_Uint16_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.143 ppl_Pointset_Powerset_Uint16_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Uint16_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_space_dimension (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Pointset_Powerset_Uint16_Box (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Uint16_Box (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Pointset_Powerset_Uint16_Box_with_complexity (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Pointset_Powerset_Uint16_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Uint16_Box_with_complexity (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Uint16_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint16_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint16_Box_space_dimension (ppl_const_Pointset_Powerset_Uint16_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint16_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint16_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint16_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint16_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint16_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Uint16_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint16_Box_is_empty (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_is_universe (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_is_bounded (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_is_discrete (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint16_Box_t ph)

- int ppl_Pointset_Powerset_Uint16_Box_omega_reduce (ppl_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_bounds_from_above (ppl_const_Pointset_Powerset_-Uint16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint16_Box_bounds_from_below (ppl_const_Pointset_Powerset_-Uint16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint16_Box_maximize (ppl_const_Pointset_Powerset_Uint16_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint16_Box_minimize (ppl_const_Pointset_Powerset_Uint16_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint16_Box_maximize_with_point (ppl_const_Pointset_Powerset_-Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint16_Box_minimize_with_point (ppl_const_Pointset_Powerset_-Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint16_Box_contains_Pointset_Powerset_Uint16_Box (ppl_const_-Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_strictly_contains_Pointset_Powerset_Uint16_Box (ppl_-const_Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_is_disjoint_from_Pointset_Powerset_Uint16_Box (ppl_-const_Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_geometrically_covers_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_geometrically_equals_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_equals_Pointset_Powerset_Uint16_Box (ppl_const_-Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_OK (ppl_const_Pointset_Powerset_Uint16_Box_t ph)
- int ppl_Pointset_Powerset_Uint16_Box_add_constraint (ppl_Pointset_Powerset_Uint16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint16_Box_add_congruence (ppl_Pointset_Powerset_Uint16_Box_-t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint16_Box_add_constraints (ppl_Pointset_Powerset_Uint16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint16_Box_add_congruences (ppl_Pointset_Powerset_Uint16_Box_-t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint16_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint16_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint16_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint16_Box_refine_with_congruences (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint16_Box_intersection_assign (ppl_Pointset_Powerset_Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint16_-Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_difference_assign (ppl_Pointset_Powerset_Uint16_Box_-t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)

- int ppl_Pointset_Powerset_Uint16_Box_concatenate_assign (ppl_Pointset_Powerset_Uint16_-Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint16_-Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_-Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_simplify_using_context_assign (ppl_Pointset_Powerset_-Uint16_Box_t x, ppl_const_Pointset_Powerset_Uint16_Box_t y)
- int ppl_Pointset_Powerset_Uint16_Box_constrains (ppl_Pointset_Powerset_Uint16_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint16_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint16_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint16_Box_affine_image (ppl_Pointset_Powerset_Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_affine_preimage (ppl_Pointset_Powerset_Uint16_Box_-t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_-Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_bounded_affine_preimage (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_-Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_image (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_preimage (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_-Powerset_Uint16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_-Powerset_Uint16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint16_Box_add_space_dimensions_and_embed (ppl_Pointset_-Powerset_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint16_Box_add_space_dimensions_and_project (ppl_Pointset_-Powerset_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint16_Box_remove_space_dimensions (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint16_Box_remove_higher_space_dimensions (ppl_Pointset_-Powerset_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint16_Box_expand_space_dimension (ppl_Pointset_Powerset_-Uint16_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Uint16_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint16_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint16_-Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Uint16_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_-Uint16_Box_t ph, int complexity)

- int ppl_Pointset_Powerset_Uint16_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Uint16_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint16_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint16_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint16_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint16_Box_size (ppl_const_Pointset_Powerset_Uint16_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint16_Box_add_disjunct (ppl_Pointset_Powerset_Uint16_Box_t ps, ppl_const_Uint16_Box_t d)
- int ppl_Pointset_Powerset_Uint16_Box_drop_disjunct (ppl_Pointset_Powerset_Uint16_Box_t ps, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t cit, ppl_Pointset_Powerset_Uint16_Box_iterator_t it)
- int ppl_Pointset_Powerset_Uint16_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint16_Box_t ps, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t first, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t last)

10.143.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Uint16_Box_tag.

10.143.2 Friends And Related Function Documentation

10.143.2.1 int ppl_delete_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) `[related]`

10.143.2.2 int ppl_new_Pointset_Powerset_Uint16_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.143.2.3 int ppl_new_Pointset_Powerset_Uint16_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.143.2.4 int ppl_new_Pointset_Powerset_Uint16_Box_from_Pointset_Powerset_Uint16_Box (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) `[related]`

10.143.2.5 int ppl_new_Pointset_Powerset_Uint16_Box_from_Pointset_Powerset_-Uint16_Box_with_complexity (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, int *complexity*) [related]

10.143.2.6 int ppl_new_Pointset_Powerset_Uint16_Box_from_space_dimension (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.143.2.7 int ppl_new_Pointset_Powerset_Uint16_Box_from_Uint16_Box (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.143.2.8 int ppl_new_Pointset_Powerset_Uint16_Box_from_Uint16_Box_with_complexity (ppl_Pointset_Powerset_Uint16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.143.2.9 int ppl_Pointset_Powerset_Uint16_Box_add_congruence (ppl_-Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.143.2.10 int ppl_Pointset_Powerset_Uint16_Box_add_congruences (ppl_Pointset_-Powerset_Uint16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.143.2.11 int ppl_Pointset_Powerset_Uint16_Box_add_constraint (ppl_-Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.143.2.12 int ppl_Pointset_Powerset_Uint16_Box_add_constraints (ppl_Pointset_-Powerset_Uint16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.143.2.13 int ppl_Pointset_Powerset_Uint16_Box_add_disjunct (ppl_Pointset_Powerset_Uint16_Box_t *ps*, ppl_const_Uint16_Box_t *d*) [related]

10.143.2.14 int ppl_Pointset_Powerset_Uint16_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.143.2.15 int ppl_Pointset_Powerset_Uint16_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.143.2.16 int ppl_Pointset_Powerset_Uint16_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.143.2.17 int ppl_Pointset_Powerset_Uint16_Box_affine_image (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.143.2.18 int ppl_Pointset_Powerset_Uint16_Box_affine_preimage (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.143.2.19 int ppl_Pointset_Powerset_Uint16_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.143.2.20 int ppl_Pointset_Powerset_Uint16_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.143.2.21 int ppl_Pointset_Powerset_Uint16_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.143.2.22 int ppl_Pointset_Powerset_Uint16_Box_bounds_from_below (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.143.2.23 int ppl_Pointset_Powerset_Uint16_Box_concatenate_assign (ppl_Pointset_-Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.24 int ppl_Pointset_Powerset_Uint16_Box_constrains (ppl_Pointset_Powerset_Uint16_-Box_t *ph*, ppl_dimension_type *var*) [related]

10.143.2.25 int ppl_Pointset_Powerset_Uint16_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.26 int ppl_Pointset_Powerset_Uint16_Box_contains_Pointset_Powerset_-Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.27 int ppl_Pointset_Powerset_Uint16_Box_difference_assign (ppl_Pointset_-Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.28 int ppl_Pointset_Powerset_Uint16_Box_drop_disjunct (ppl_Pointset_Powerset_-Uint16_Box_t *ps*, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t *cit*, ppl_Pointset_Powerset_Uint16_Box_iterator_t *it*) [related]

10.143.2.29 int ppl_Pointset_Powerset_Uint16_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint16_Box_t *ps*, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Uint16_Box_iterator_t *last*) [related]

10.143.2.30 int ppl_Pointset_Powerset_Uint16_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint16_Box_t *ph*, int *complexity*) [related]

10.143.2.31 int ppl_Pointset_Powerset_Uint16_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.143.2.32 int ppl_Pointset_Powerset_Uint16_Box_equals_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.33 int ppl_Pointset_Powerset_Uint16_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.143.2.34 int ppl_Pointset_Powerset_Uint16_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint16_Box_t *ps*, size_t ∗ *sz*) [related]

10.143.2.35 int ppl_Pointset_Powerset_Uint16_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.143.2.36 int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.143.2.37 int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.143.2.38 int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.143.2.39 int ppl_Pointset_Powerset_Uint16_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.143.2.40 int ppl_Pointset_Powerset_Uint16_Box_geometrically_covers_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.41 int ppl_Pointset_Powerset_Uint16_Box_geometrically_equals_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.42 int ppl_Pointset_Powerset_Uint16_Box_intersection_assign (ppl_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.43 int ppl_Pointset_Powerset_Uint16_Box_is_bounded (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.44 int ppl_Pointset_Powerset_Uint16_Box_is_discrete (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.45 int ppl_Pointset_Powerset_Uint16_Box_is_disjoint_from_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) `[related]`

10.143.2.46 int ppl_Pointset_Powerset_Uint16_Box_is_empty (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) `[related]`

10.143.2.47 int ppl_Pointset_Powerset_Uint16_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) `[related]`

10.143.2.48 int ppl_Pointset_Powerset_Uint16_Box_is_universe (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) `[related]`

10.143.2.49 int ppl_Pointset_Powerset_Uint16_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) `[related]`

10.143.2.50 int ppl_Pointset_Powerset_Uint16_Box_maximize (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.143.2.51 int ppl_Pointset_Powerset_Uint16_Box_maximize_with_point (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.143.2.52 int ppl_Pointset_Powerset_Uint16_Box_minimize (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.143.2.53 int ppl_Pointset_Powerset_Uint16_Box_minimize_with_point (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.143.2.54 int ppl_Pointset_Powerset_Uint16_Box_OK (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.55 int ppl_Pointset_Powerset_Uint16_Box_omega_reduce (ppl_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.56 int ppl_Pointset_Powerset_Uint16_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.57 int ppl_Pointset_Powerset_Uint16_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.143.2.58 int ppl_Pointset_Powerset_Uint16_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.143.2.59 int ppl_Pointset_Powerset_Uint16_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.143.2.60 int ppl_Pointset_Powerset_Uint16_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.143.2.61 int ppl_Pointset_Powerset_Uint16_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.143.2.62 int ppl_Pointset_Powerset_Uint16_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.143.2.63 int ppl_Pointset_Powerset_Uint16_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint16_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.143.2.64 int ppl_Pointset_Powerset_Uint16_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.143.2.65 int ppl_Pointset_Powerset_Uint16_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.143.2.66 int ppl_Pointset_Powerset_Uint16_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.67 int ppl_Pointset_Powerset_Uint16_Box_size (ppl_const_Pointset_Powerset_Uint16_-Box_t *ps*, size_t ∗ *sz*) [related]

10.143.2.68 int ppl_Pointset_Powerset_Uint16_Box_space_dimension (ppl_const_-Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.143.2.69 int ppl_Pointset_Powerset_Uint16_Box_strictly_contains_Pointset_Powerset_Uint16_Box (ppl_const_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.70 int ppl_Pointset_Powerset_Uint16_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.71 int ppl_Pointset_Powerset_Uint16_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint16_Box_t *ph*) [related]

10.143.2.72 int ppl_Pointset_Powerset_Uint16_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint16_Box_t *ps*, size_t ∗ *sz*) [related]

10.143.2.73 int ppl_Pointset_Powerset_Uint16_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.143.2.74 int ppl_Pointset_Powerset_Uint16_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.143.2.75 int ppl_Pointset_Powerset_Uint16_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

10.143.2.76 int ppl_Pointset_Powerset_Uint16_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint16_Box_t *x*, ppl_const_Pointset_Powerset_Uint16_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.144 ppl_Pointset_Powerset_Uint32_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint32_Box_const_iterator (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Uint32_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint32_Box_t ps, ppl_Pointset_Powerset_Uint32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint32_Box_t ps, ppl_Pointset_Powerset_Uint32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t ps, ppl_const_Uint32_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Uint32_Box_const_iterator (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t psit)

10.144.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint32_Box_tag.

10.144.2 Friends And Related Function Documentation

10.144.2.1 int ppl_delete_Pointset_Powerset_Uint32_Box_const_iterator (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t *psit*) [related]

10.144.2.2 int ppl_new_Pointset_Powerset_Uint32_Box_const_iterator (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t ∗ *pit*) [related]

10.144.2.3 int ppl_new_Pointset_Powerset_Uint32_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t *y*) [related]

10.144.2.4 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint32_Box_t *ps*, ppl_Pointset_Powerset_Uint32_Box_const_iterator_t *psit*) [related]

10.144.2.5 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t *psit*) [related]

10.144.2.6 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t *ps*, ppl_const_Uint32_Box_t * *d*) [related]

10.144.2.7 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint32_Box_t *ps*, ppl_Pointset_Powerset_Uint32_Box_const_iterator_t *psit*) [related]

10.144.2.8 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_const_iterator_t *y*) [related]

10.144.2.9 int ppl_Pointset_Powerset_Uint32_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint32_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.145 ppl_Pointset_Powerset_Uint32_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint32_Box_iterator (ppl_Pointset_Powerset_Uint32_Box_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Uint32_Box_iterator_from_iterator (ppl_Pointset_Powerset_Uint32_Box_iterator_t *px, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_begin (ppl_Pointset_Powerset_Uint32_Box_t ps, ppl_Pointset_Powerset_Uint32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_end (ppl_Pointset_Powerset_Uint32_Box_t ps, ppl_Pointset_Powerset_Uint32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t x, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_increment (ppl_Pointset_Powerset_Uint32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_decrement (ppl_Pointset_Powerset_Uint32_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint32_Box_iterator_dereference (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t ps, ppl_const_Uint32_Box_t *d)
- int ppl_delete_Pointset_Powerset_Uint32_Box_iterator (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t psit)

10.145.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint32_Box_tag.

10.145.2 Friends And Related Function Documentation

10.145.2.1 int ppl_delete_Pointset_Powerset_Uint32_Box_iterator (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *psit*) [related]

10.145.2.2 int ppl_new_Pointset_Powerset_Uint32_Box_iterator (ppl_Pointset_Powerset_Uint32_Box_iterator_t * *pit*) [related]

10.145.2.3 int ppl_new_Pointset_Powerset_Uint32_Box_iterator_from_iterator (ppl_Pointset_Powerset_Uint32_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *y*) [related]

10.145.2.4 int ppl_Pointset_Powerset_Uint32_Box_iterator_begin (ppl_Pointset_Powerset_Uint32_Box_t *ps*, ppl_Pointset_Powerset_Uint32_Box_iterator_t *psit*) [related]

10.145.2.5 int ppl_Pointset_Powerset_Uint32_Box_iterator_decrement (ppl_Pointset_Powerset_Uint32_Box_iterator_t *psit*) [related]

10.145.2.6 int ppl_Pointset_Powerset_Uint32_Box_iterator_dereference (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *ps*, ppl_const_Uint32_Box_t ∗ *d*) [related]

10.145.2.7 int ppl_Pointset_Powerset_Uint32_Box_iterator_end (ppl_Pointset_Powerset_Uint32_Box_t *ps*, ppl_Pointset_Powerset_Uint32_Box_iterator_t *psit*) [related]

10.145.2.8 int ppl_Pointset_Powerset_Uint32_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *y*) [related]

10.145.2.9 int ppl_Pointset_Powerset_Uint32_Box_iterator_increment (ppl_Pointset_Powerset_Uint32_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.146 ppl_Pointset_Powerset_Uint32_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Uint32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_space_dimension (ppl_Pointset_Powerset_Uint32_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_Pointset_Powerset_Uint32_Box (ppl_Pointset_Powerset_Uint32_Box_t ∗pph, ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_Uint32_Box (ppl_Pointset_Powerset_Uint32_Box_t ∗pph, ppl_const_Uint32_Box_t ph)

- int ppl_new_Pointset_Powerset_Uint32_Box_from_Pointset_Powerset_Uint32_Box_with_complexity (ppl_Pointset_Powerset_Uint32_Box_t *pph, ppl_const_Pointset_Powerset_Uint32_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_Uint32_Box_with_complexity (ppl_Pointset_Powerset_Uint32_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint32_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Uint32_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint32_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint32_Box_space_dimension (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint32_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint32_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint32_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Uint32_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint32_Box_is_empty (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_is_universe (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_is_bounded (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_is_discrete (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_omega_reduce (ppl_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint32_Box_bounds_from_below (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint32_Box_maximize (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Uint32_Box_minimize (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Uint32_Box_maximize_with_point (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint32_Box_minimize_with_point (ppl_const_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Pointset_Powerset_Uint32_Box_contains_Pointset_Powerset_Uint32_Box (ppl_const_-Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_strictly_contains_Pointset_Powerset_Uint32_Box (ppl_-const_Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_is_disjoint_from_Pointset_Powerset_Uint32_Box (ppl_-const_Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_geometrically_covers_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_geometrically_equals_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_equals_Pointset_Powerset_Uint32_Box (ppl_const_-Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_OK (ppl_const_Pointset_Powerset_Uint32_Box_t ph)
- int ppl_Pointset_Powerset_Uint32_Box_add_constraint (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint32_Box_add_congruence (ppl_Pointset_Powerset_Uint32_Box_-t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint32_Box_add_constraints (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint32_Box_add_congruences (ppl_Pointset_Powerset_Uint32_Box_-t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint32_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint32_-Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint32_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint32_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint32_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint32_-Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint32_Box_refine_with_congruences (ppl_Pointset_Powerset_-Uint32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint32_Box_intersection_assign (ppl_Pointset_Powerset_Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint32_-Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_difference_assign (ppl_Pointset_Powerset_Uint32_Box_-t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_concatenate_assign (ppl_Pointset_Powerset_Uint32_-Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint32_-Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_-Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_simplify_using_context_assign (ppl_Pointset_Powerset_-Uint32_Box_t x, ppl_const_Pointset_Powerset_Uint32_Box_t y)
- int ppl_Pointset_Powerset_Uint32_Box_constrains (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint32_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_-Uint32_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint32_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_-Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint32_Box_affine_image (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Uint32_Box_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint32_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint32_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint32_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint32_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint32_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint32_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint32_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Uint32_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint32_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Uint32_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint32_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Uint32_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Uint32_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint32_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint32_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint32_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint32_Box_size (ppl_const_Pointset_Powerset_Uint32_Box_t ps, size_t *sz)
- int ppl_Pointset_Powerset_Uint32_Box_add_disjunct (ppl_Pointset_Powerset_Uint32_Box_t ps, ppl_const_Uint32_Box_t d)
- int ppl_Pointset_Powerset_Uint32_Box_drop_disjunct (ppl_Pointset_Powerset_Uint32_Box_t ps, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t cit, ppl_Pointset_Powerset_Uint32_Box_iterator_t it)
- int ppl_Pointset_Powerset_Uint32_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint32_Box_t ps, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t first, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t last)

10.146.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Uint32_Box_tag.

10.146.2 Friends And Related Function Documentation

10.146.2.1 int ppl_delete_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.2 int ppl_new_Pointset_Powerset_Uint32_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.146.2.3 int ppl_new_Pointset_Powerset_Uint32_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.146.2.4 int ppl_new_Pointset_Powerset_Uint32_Box_from_Pointset_Powerset_Uint32_Box (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.5 int ppl_new_Pointset_Powerset_Uint32_Box_from_Pointset_Powerset_Uint32_Box_with_complexity (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, int *complexity*) [related]

10.146.2.6 int ppl_new_Pointset_Powerset_Uint32_Box_from_space_dimension (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.146.2.7 int ppl_new_Pointset_Powerset_Uint32_Box_from_Uint32_Box (ppl_Pointset_Powerset_Uint32_Box_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.146.2.8 int ppl_new_Pointset_Powerset_Uint32_Box_from_Uint32_Box_with_complexity (ppl_Pointset_Powerset_Uint32_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.146.2.9 int ppl_Pointset_Powerset_Uint32_Box_add_congruence (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.146.2.10 int ppl_Pointset_Powerset_Uint32_Box_add_congruences (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.146.2.11 int ppl_Pointset_Powerset_Uint32_Box_add_constraint (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.146.2.12 int ppl_Pointset_Powerset_Uint32_Box_add_constraints (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.146.2.13 int ppl_Pointset_Powerset_Uint32_Box_add_disjunct (ppl_Pointset_Powerset_Uint32_Box_t *ps*, ppl_const_Uint32_Box_t *d*) [related]

10.146.2.14 int ppl_Pointset_Powerset_Uint32_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.146.2.15 int ppl_Pointset_Powerset_Uint32_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.146.2.16 int ppl_Pointset_Powerset_Uint32_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.146.2.17 int ppl_Pointset_Powerset_Uint32_Box_affine_image (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.146.2.18 int ppl_Pointset_Powerset_Uint32_Box_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.146.2.19 int ppl_Pointset_Powerset_Uint32_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.146.2.20 int ppl_Pointset_Powerset_Uint32_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.146.2.21 int ppl_Pointset_Powerset_Uint32_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.146.2.22 int ppl_Pointset_Powerset_Uint32_Box_bounds_from_below (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.146.2.23 int ppl_Pointset_Powerset_Uint32_Box_concatenate_assign (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.24 int ppl_Pointset_Powerset_Uint32_Box_constrains (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.146.2.25 int ppl_Pointset_Powerset_Uint32_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.26 int ppl_Pointset_Powerset_Uint32_Box_contains_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.27 int ppl_Pointset_Powerset_Uint32_Box_difference_assign (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.28 int ppl_Pointset_Powerset_Uint32_Box_drop_disjunct (ppl_Pointset_Powerset_Uint32_Box_t *ps*, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *cit*, ppl_Pointset_Powerset_Uint32_Box_iterator_t *it*) [related]

10.146.2.29 int ppl_Pointset_Powerset_Uint32_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint32_Box_t *ps*, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Uint32_Box_iterator_t *last*) [related]

10.146.2.30 int ppl_Pointset_Powerset_Uint32_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint32_Box_t *ph*, int *complexity*) [related]

10.146.2.31 int ppl_Pointset_Powerset_Uint32_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.146.2.32 int ppl_Pointset_Powerset_Uint32_Box_equals_Pointset_Powerset_-Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.33 int ppl_Pointset_Powerset_Uint32_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.146.2.34 int ppl_Pointset_Powerset_Uint32_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint32_Box_t *ps*, size_t * *sz*) [related]

10.146.2.35 int ppl_Pointset_Powerset_Uint32_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.146.2.36 int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.146.2.37 int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.146.2.38 int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.146.2.39 int ppl_Pointset_Powerset_Uint32_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.146.2.40 int ppl_Pointset_Powerset_Uint32_Box_geometrically_covers_Pointset_-Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.41 int ppl_Pointset_Powerset_Uint32_Box_geometrically_equals_Pointset_-Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.42 int ppl_Pointset_Powerset_Uint32_Box_intersection_assign (ppl_Pointset_-Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.43 int ppl_Pointset_Powerset_Uint32_Box_is_bounded (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*) [related]

10.146.2.44 int ppl_Pointset_Powerset_Uint32_Box_is_discrete (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*) [related]

10.146.2.45 int ppl_Pointset_Powerset_Uint32_Box_is_disjoint_from_Pointset_-Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.46 int ppl_Pointset_Powerset_Uint32_Box_is_empty (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*) [related]

10.146.2.47 int ppl_Pointset_Powerset_Uint32_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.48 int ppl_Pointset_Powerset_Uint32_Box_is_universe (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*) [related]

10.146.2.49 int ppl_Pointset_Powerset_Uint32_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.146.2.50 int ppl_Pointset_Powerset_Uint32_Box_maximize (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.146.2.51 int ppl_Pointset_Powerset_Uint32_Box_maximize_with_point (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.146.2.52 int ppl_Pointset_Powerset_Uint32_Box_minimize (ppl_const_Pointset_Powerset_-Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.146.2.53 int ppl_Pointset_Powerset_Uint32_Box_minimize_with_point (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.146.2.54 int ppl_Pointset_Powerset_Uint32_Box_OK (ppl_const_Pointset_Powerset_Uint32_-Box_t *ph*) [related]

10.146.2.55 int ppl_Pointset_Powerset_Uint32_Box_omega_reduce (ppl_Pointset_Powerset_-Uint32_Box_t *ph*) [related]

10.146.2.56 int ppl_Pointset_Powerset_Uint32_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.57 int ppl_Pointset_Powerset_Uint32_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.146.2.58 int ppl_Pointset_Powerset_Uint32_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.146.2.59 int ppl_Pointset_Powerset_Uint32_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.146.2.60 int ppl_Pointset_Powerset_Uint32_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.146.2.61 int ppl_Pointset_Powerset_Uint32_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.146.2.62 int ppl_Pointset_Powerset_Uint32_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.146.2.63 int ppl_Pointset_Powerset_Uint32_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.146.2.64 int ppl_Pointset_Powerset_Uint32_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.146.2.65 int ppl_Pointset_Powerset_Uint32_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.146.2.66 int ppl_Pointset_Powerset_Uint32_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.67 int ppl_Pointset_Powerset_Uint32_Box_size (ppl_const_Pointset_Powerset_Uint32_Box_t *ps*, size_t * *sz*) [related]

10.146.2.68 int ppl_Pointset_Powerset_Uint32_Box_space_dimension (ppl_const_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.146.2.69 int ppl_Pointset_Powerset_Uint32_Box_strictly_contains_Pointset_Powerset_Uint32_Box (ppl_const_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.70 int ppl_Pointset_Powerset_Uint32_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.71 int ppl_Pointset_Powerset_Uint32_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint32_Box_t *ph*) [related]

10.146.2.72 int ppl_Pointset_Powerset_Uint32_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint32_Box_t *ps*, size_t ∗ *sz*) [related]

10.146.2.73 int ppl_Pointset_Powerset_Uint32_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.146.2.74 int ppl_Pointset_Powerset_Uint32_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.146.2.75 int ppl_Pointset_Powerset_Uint32_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

10.146.2.76 int ppl_Pointset_Powerset_Uint32_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint32_Box_t *x*, ppl_const_Pointset_Powerset_Uint32_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.147 ppl_Pointset_Powerset_Uint64_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint64_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint64_Box_const_iterator (ppl_Pointset_Powerset_Uint64_Box_-const_iterator_t ∗pit)

- int ppl_new_Pointset_Powerset_Uint64_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint64_Box_t ps, ppl_Pointset_Powerset_Uint64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint64_Box_t ps, ppl_Pointset_Powerset_Uint64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t ps, ppl_const_Uint64_Box_t *d)
- int ppl_delete_Pointset_Powerset_Uint64_Box_const_iterator (ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t psit)

10.147.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint64_Box_tag.

10.147.2 Friends And Related Function Documentation

10.147.2.1 int ppl_delete_Pointset_Powerset_Uint64_Box_const_iterator (ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t *psit*) [related]

10.147.2.2 int ppl_new_Pointset_Powerset_Uint64_Box_const_iterator (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t * *pit*) [related]

10.147.2.3 int ppl_new_Pointset_Powerset_Uint64_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t *y*) [related]

10.147.2.4 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint64_Box_t *ps*, ppl_Pointset_Powerset_Uint64_Box_const_iterator_t *psit*) [related]

10.147.2.5 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t *psit*) [related]

10.147.2.6 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_dereference (ppl_const_-Pointset_Powerset_Uint64_Box_const_iterator_t *ps*, ppl_const_Uint64_Box_t ∗ *d*) [related]

10.147.2.7 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_end (ppl_const_Pointset_-Powerset_Uint64_Box_t *ps*, ppl_Pointset_Powerset_Uint64_Box_const_iterator_t *psit*) [related]

10.147.2.8 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_const_iterator_t *y*) [related]

10.147.2.9 int ppl_Pointset_Powerset_Uint64_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint64_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.148 ppl_Pointset_Powerset_Uint64_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint64_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint64_Box_iterator (ppl_Pointset_Powerset_Uint64_Box_-iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Uint64_Box_iterator_from_iterator (ppl_Pointset_Powerset_-Uint64_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint64_Box_iterator_begin (ppl_Pointset_Powerset_Uint64_Box_t ps, ppl_Pointset_Powerset_Uint64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_iterator_end (ppl_Pointset_Powerset_Uint64_Box_t ps, ppl_Pointset_Powerset_Uint64_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_iterator_equal_test (ppl_const_Pointset_Powerset_-Uint64_Box_iterator_t x, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint64_Box_iterator_increment (ppl_Pointset_Powerset_Uint64_Box_-iterator_t psit)
- int ppl_Pointset_Powerset_Uint64_Box_iterator_decrement (ppl_Pointset_Powerset_Uint64_Box_-iterator_t psit)

- int ppl_Pointset_Powerset_Uint64_Box_iterator_dereference (ppl_const_Pointset_Powerset_-Uint64_Box_iterator_t ps, ppl_const_Uint64_Box_t *d)
- int ppl_delete_Pointset_Powerset_Uint64_Box_iterator (ppl_const_Pointset_Powerset_Uint64_-Box_iterator_t psit)

10.148.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint64_Box_tag.

10.148.2 Friends And Related Function Documentation

10.148.2.1 int ppl_delete_Pointset_Powerset_Uint64_Box_iterator (ppl_const_Pointset_Powerset_-Uint64_Box_iterator_t *psit*) [related]

10.148.2.2 int ppl_new_Pointset_Powerset_Uint64_Box_iterator (ppl_Pointset_Powerset_Uint64_-Box_iterator_t * *pit*) [related]

10.148.2.3 int ppl_new_Pointset_Powerset_Uint64_Box_iterator_from_iterator (ppl_Pointset_Powerset_Uint64_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_-Uint64_Box_iterator_t *y*) [related]

10.148.2.4 int ppl_Pointset_Powerset_Uint64_Box_iterator_begin (ppl_Pointset_-Powerset_Uint64_Box_t *ps*, ppl_Pointset_Powerset_Uint64_Box_iterator_t *psit*) [related]

10.148.2.5 int ppl_Pointset_Powerset_Uint64_Box_iterator_decrement (ppl_Pointset_Powerset_Uint64_Box_iterator_t *psit*) [related]

10.148.2.6 int ppl_Pointset_Powerset_Uint64_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Uint64_Box_iterator_t *ps*, ppl_const_Uint64_Box_t * *d*) [related]

10.148.2.7 int ppl_Pointset_Powerset_Uint64_Box_iterator_end (ppl_Pointset_Powerset_-Uint64_Box_t *ps*, ppl_Pointset_Powerset_Uint64_Box_iterator_t *psit*) [related]

10.148.2.8 int ppl_Pointset_Powerset_Uint64_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Uint64_Box_iterator_t *x*, ppl_const_Pointset_-Powerset_Uint64_Box_iterator_t *y*) [related]

10.148.2.9 int ppl_Pointset_Powerset_Uint64_Box_iterator_increment (ppl_Pointset_Powerset_Uint64_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.149 ppl_Pointset_Powerset_Uint64_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Uint64_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_space_dimension (ppl_Pointset_Powerset_-Uint64_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Pointset_Powerset_Uint64_Box (ppl_-Pointset_Powerset_Uint64_Box_t *pph, ppl_const_Pointset_Powerset_Uint64_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Uint64_Box (ppl_Pointset_Powerset_Uint64_-Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Pointset_Powerset_Uint64_Box_with_-complexity (ppl_Pointset_Powerset_Uint64_Box_t *pph, ppl_const_Pointset_Powerset_Uint64_-Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Uint64_Box_with_complexity (ppl_Pointset_-Powerset_Uint64_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Constraint_System (ppl_Pointset_Powerset_-Uint64_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Uint64_Box_from_Congruence_System (ppl_Pointset_Powerset_-Uint64_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint64_Box_space_dimension (ppl_const_Pointset_Powerset_Uint64_-Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint64_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint64_-Box_t ph, ppl_dimension_type *m)

- int ppl_Pointset_Powerset_Uint64_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint64_Box_relation_with_Generator (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Uint64_Box_relation_with_Congruence (ppl_const_Pointset_-Powerset_Uint64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint64_Box_is_empty (ppl_const_Pointset_Powerset_Uint64_Box_-t ph)
- int ppl_Pointset_Powerset_Uint64_Box_is_universe (ppl_const_Pointset_Powerset_Uint64_Box_-t ph)
- int ppl_Pointset_Powerset_Uint64_Box_is_bounded (ppl_const_Pointset_Powerset_Uint64_Box_-t ph)
- int ppl_Pointset_Powerset_Uint64_Box_contains_integer_point (ppl_const_Pointset_Powerset_-Uint64_Box_t ph)
- int ppl_Pointset_Powerset_Uint64_Box_is_topologically_closed (ppl_const_Pointset_Powerset_-Uint64_Box_t ph)
- int ppl_Pointset_Powerset_Uint64_Box_is_discrete (ppl_const_Pointset_Powerset_Uint64_Box_-t ph)
- int ppl_Pointset_Powerset_Uint64_Box_topological_closure_assign (ppl_Pointset_Powerset_-Uint64_Box_t ph)
- int ppl_Pointset_Powerset_Uint64_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint64_Box_-t ph)
- int ppl_Pointset_Powerset_Uint64_Box_omega_reduce (ppl_Pointset_Powerset_Uint64_Box_t ph)
- int ppl_Pointset_Powerset_Uint64_Box_bounds_from_above (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint64_Box_bounds_from_below (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint64_Box_maximize (ppl_const_Pointset_Powerset_Uint64_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint64_Box_minimize (ppl_const_Pointset_Powerset_Uint64_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint64_Box_maximize_with_point (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint64_Box_minimize_with_point (ppl_const_Pointset_Powerset_-Uint64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint64_Box_contains_Pointset_Powerset_Uint64_Box (ppl_const_-Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_strictly_contains_Pointset_Powerset_Uint64_Box (ppl_-const_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_is_disjoint_from_Pointset_Powerset_Uint64_Box (ppl_-const_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_geometrically_covers_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_geometrically_equals_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_equals_Pointset_Powerset_Uint64_Box (ppl_const_-Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_OK (ppl_const_Pointset_Powerset_Uint64_Box_t ph)

- int ppl_Pointset_Powerset_Uint64_Box_add_constraint (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint64_Box_add_congruence (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint64_Box_add_constraints (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint64_Box_add_congruences (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint64_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint64_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint64_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint64_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint64_Box_intersection_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_difference_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_concatenate_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint64_Box_t x, ppl_const_Pointset_Powerset_Uint64_Box_t y)
- int ppl_Pointset_Powerset_Uint64_Box_constrains (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint64_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint64_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint64_Box_affine_image (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint64_Box_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint64_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint64_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint64_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint64_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint64_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint64_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint64_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Uint64_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint64_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Uint64_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint64_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Uint64_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Uint64_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint64_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint64_Box_size (ppl_const_Pointset_Powerset_Uint64_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint64_Box_add_disjunct (ppl_Pointset_Powerset_Uint64_Box_t ps, ppl_const_Uint64_Box_t d)
- int ppl_Pointset_Powerset_Uint64_Box_drop_disjunct (ppl_Pointset_Powerset_Uint64_Box_t ps, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t cit, ppl_Pointset_Powerset_Uint64_Box_iterator_t it)
- int ppl_Pointset_Powerset_Uint64_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint64_Box_t ps, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t first, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t last)

10.149.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Uint64_Box_tag.

10.149.2 Friends And Related Function Documentation

10.149.2.1 int ppl_delete_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.2 int ppl_new_Pointset_Powerset_Uint64_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.149.2.3 int ppl_new_Pointset_Powerset_Uint64_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.149.2.4 int ppl_new_Pointset_Powerset_Uint64_Box_from_Pointset_Powerset_Uint64_Box (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.5 int ppl_new_Pointset_Powerset_Uint64_Box_from_Pointset_Powerset_Uint64_Box_with_complexity (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, int *complexity*) [related]

10.149.2.6 int ppl_new_Pointset_Powerset_Uint64_Box_from_space_dimension (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.149.2.7 int ppl_new_Pointset_Powerset_Uint64_Box_from_Uint64_Box (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.149.2.8 int ppl_new_Pointset_Powerset_Uint64_Box_from_Uint64_Box_with_complexity (ppl_Pointset_Powerset_Uint64_Box_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.149.2.9 int ppl_Pointset_Powerset_Uint64_Box_add_congruence (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.149.2.10 int ppl_Pointset_Powerset_Uint64_Box_add_congruences (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.149.2.11 int ppl_Pointset_Powerset_Uint64_Box_add_constraint (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.149.2.12 int ppl_Pointset_Powerset_Uint64_Box_add_constraints (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.149.2.13 int ppl_Pointset_Powerset_Uint64_Box_add_disjunct (ppl_Pointset_Powerset_Uint64_Box_t *ps*, ppl_const_Uint64_Box_t *d*) [related]

10.149.2.14 int ppl_Pointset_Powerset_Uint64_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.149.2.15 int ppl_Pointset_Powerset_Uint64_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.149.2.16 int ppl_Pointset_Powerset_Uint64_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.149.2.17 int ppl_Pointset_Powerset_Uint64_Box_affine_image (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.149.2.18 int ppl_Pointset_Powerset_Uint64_Box_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.149.2.19 int ppl_Pointset_Powerset_Uint64_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.149.2.20 int ppl_Pointset_Powerset_Uint64_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.149.2.21 int ppl_Pointset_Powerset_Uint64_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.149.2.22 int ppl_Pointset_Powerset_Uint64_Box_bounds_from_below (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.149.2.23 int ppl_Pointset_Powerset_Uint64_Box_concatenate_assign (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.24 int ppl_Pointset_Powerset_Uint64_Box_constrains (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.149.2.25 int ppl_Pointset_Powerset_Uint64_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.26 int ppl_Pointset_Powerset_Uint64_Box_contains_Pointset_Powerset_-Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.27 int ppl_Pointset_Powerset_Uint64_Box_difference_assign (ppl_Pointset_-Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.28 int ppl_Pointset_Powerset_Uint64_Box_drop_disjunct (ppl_Pointset_Powerset_-Uint64_Box_t *ps*, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t *cit*, ppl_Pointset_Powerset_Uint64_Box_iterator_t *it*) [related]

10.149.2.29 int ppl_Pointset_Powerset_Uint64_Box_drop_disjuncts (ppl_Pointset_Powerset_-Uint64_Box_t *ps*, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Uint64_Box_iterator_t *last*) [related]

10.149.2.30 int ppl_Pointset_Powerset_Uint64_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint64_Box_t *ph*, int *complexity*) [related]

10.149.2.31 int ppl_Pointset_Powerset_Uint64_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.149.2.32 int ppl_Pointset_Powerset_Uint64_Box_equals_Pointset_Powerset_-Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.33 int ppl_Pointset_Powerset_Uint64_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.149.2.34 int ppl_Pointset_Powerset_Uint64_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint64_Box_t *ps*, size_t ∗ *sz*) [related]

10.149.2.35 int ppl_Pointset_Powerset_Uint64_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.149.2.36 int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.149.2.37 int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.149.2.38 int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.149.2.39 int ppl_Pointset_Powerset_Uint64_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.149.2.40 int ppl_Pointset_Powerset_Uint64_Box_geometrically_covers_Pointset_-Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.41 int ppl_Pointset_Powerset_Uint64_Box_geometrically_equals_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.42 int ppl_Pointset_Powerset_Uint64_Box_intersection_assign (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.43 int ppl_Pointset_Powerset_Uint64_Box_is_bounded (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.44 int ppl_Pointset_Powerset_Uint64_Box_is_discrete (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.45 int ppl_Pointset_Powerset_Uint64_Box_is_disjoint_from_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.46 int ppl_Pointset_Powerset_Uint64_Box_is_empty (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.47 int ppl_Pointset_Powerset_Uint64_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.48 int ppl_Pointset_Powerset_Uint64_Box_is_universe (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.49 int ppl_Pointset_Powerset_Uint64_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.149.2.50 int ppl_Pointset_Powerset_Uint64_Box_maximize (ppl_const_Pointset_Powerset_-Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.149.2.51 int ppl_Pointset_Powerset_Uint64_Box_maximize_with_point (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.149.2.52 int ppl_Pointset_Powerset_Uint64_Box_minimize (ppl_const_Pointset_Powerset_-Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.149.2.53 int ppl_Pointset_Powerset_Uint64_Box_minimize_with_point (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.149.2.54 int ppl_Pointset_Powerset_Uint64_Box_OK (ppl_const_Pointset_Powerset_Uint64_-Box_t *ph*) [related]

10.149.2.55 int ppl_Pointset_Powerset_Uint64_Box_omega_reduce (ppl_Pointset_Powerset_-Uint64_Box_t *ph*) [related]

10.149.2.56 int ppl_Pointset_Powerset_Uint64_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.57 int ppl_Pointset_Powerset_Uint64_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.149.2.58 int ppl_Pointset_Powerset_Uint64_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.149.2.59 int ppl_Pointset_Powerset_Uint64_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.149.2.60 int ppl_Pointset_Powerset_Uint64_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.149.2.61 int ppl_Pointset_Powerset_Uint64_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.149.2.62 int ppl_Pointset_Powerset_Uint64_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.149.2.63 int ppl_Pointset_Powerset_Uint64_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.149.2.64 int ppl_Pointset_Powerset_Uint64_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.149.2.65 int ppl_Pointset_Powerset_Uint64_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.149.2.66 int ppl_Pointset_Powerset_Uint64_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.67 int ppl_Pointset_Powerset_Uint64_Box_size (ppl_const_Pointset_Powerset_Uint64_Box_t *ps*, size_t ∗ *sz*) [related]

10.149.2.68 int ppl_Pointset_Powerset_Uint64_Box_space_dimension (ppl_const_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.149.2.69 int ppl_Pointset_Powerset_Uint64_Box_strictly_contains_Pointset_Powerset_Uint64_Box (ppl_const_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.70 int ppl_Pointset_Powerset_Uint64_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.71 int ppl_Pointset_Powerset_Uint64_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint64_Box_t *ph*) [related]

10.149.2.72 int ppl_Pointset_Powerset_Uint64_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint64_Box_t *ps*, size_t ∗ *sz*) [related]

10.149.2.73 int ppl_Pointset_Powerset_Uint64_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.149.2.74 int ppl_Pointset_Powerset_Uint64_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.149.2.75 int ppl_Pointset_Powerset_Uint64_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

10.149.2.76 int ppl_Pointset_Powerset_Uint64_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint64_Box_t *x*, ppl_const_Pointset_Powerset_Uint64_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.150 ppl_Pointset_Powerset_Uint8_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint8_Box_const_iterator (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Uint8_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t ∗px, ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint8_Box_t ps, ppl_Pointset_Powerset_Uint8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint8_Box_t ps, ppl_Pointset_Powerset_Uint8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t ps, ppl_const_Uint8_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Uint8_Box_const_iterator (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t psit)

10.150.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Uint8_Box_tag.

10.150.2 Friends And Related Function Documentation

10.150.2.1 int ppl_delete_Pointset_Powerset_Uint8_Box_const_iterator (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t *psit*) [related]

10.150.2.2 int ppl_new_Pointset_Powerset_Uint8_Box_const_iterator (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t * *pit*) [related]

10.150.2.3 int ppl_new_Pointset_Powerset_Uint8_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t *y*) [related]

10.150.2.4 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Uint8_Box_t *ps*, ppl_Pointset_Powerset_Uint8_Box_const_iterator_t *psit*) [related]

10.150.2.5 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_decrement (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t *psit*) [related]

10.150.2.6 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t *ps*, ppl_const_Uint8_Box_t * *d*) [related]

10.150.2.7 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_end (ppl_const_Pointset_Powerset_Uint8_Box_t *ps*, ppl_Pointset_Powerset_Uint8_Box_const_iterator_t *psit*) [related]

10.150.2.8 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_const_iterator_t *y*) [related]

10.150.2.9 int ppl_Pointset_Powerset_Uint8_Box_const_iterator_increment (ppl_Pointset_Powerset_Uint8_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.151 ppl_Pointset_Powerset_Uint8_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint8_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Uint8_Box_iterator (ppl_Pointset_Powerset_Uint8_Box_iterator_t ∗pit)
- int ppl_new_Pointset_Powerset_Uint8_Box_iterator_from_iterator (ppl_Pointset_Powerset_-Uint8_Box_iterator_t ∗px, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_begin (ppl_Pointset_Powerset_Uint8_Box_t ps, ppl_Pointset_Powerset_Uint8_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_end (ppl_Pointset_Powerset_Uint8_Box_t ps, ppl_-Pointset_Powerset_Uint8_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Uint8_-Box_iterator_t x, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t y)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_increment (ppl_Pointset_Powerset_Uint8_Box_-iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_decrement (ppl_Pointset_Powerset_Uint8_Box_-iterator_t psit)
- int ppl_Pointset_Powerset_Uint8_Box_iterator_dereference (ppl_const_Pointset_Powerset_Uint8_-Box_iterator_t ps, ppl_const_Uint8_Box_t ∗d)
- int ppl_delete_Pointset_Powerset_Uint8_Box_iterator (ppl_const_Pointset_Powerset_Uint8_Box_-iterator_t psit)

10.151.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Uint8_Box_tag.

10.151.2 Friends And Related Function Documentation

10.151.2.1 int ppl_delete_Pointset_Powerset_Uint8_Box_iterator (ppl_const_Pointset_Powerset_-Uint8_Box_iterator_t *psit*) [related]

10.151.2.2 int ppl_new_Pointset_Powerset_Uint8_Box_iterator (ppl_Pointset_Powerset_Uint8_-Box_iterator_t ∗ *pit*) [related]

10.151.2.3 int ppl_new_Pointset_Powerset_Uint8_Box_iterator_from_iterator (ppl_Pointset_Powerset_Uint8_Box_iterator_t ∗ *px*, ppl_const_Pointset_Powerset_-Uint8_Box_iterator_t *y*) [related]

10.151.2.4 int ppl_Pointset_Powerset_Uint8_Box_iterator_begin (ppl_Pointset_-Powerset_Uint8_Box_t *ps*, ppl_Pointset_Powerset_Uint8_Box_iterator_t *psit*) [related]

10.151.2.5 int ppl_Pointset_Powerset_Uint8_Box_iterator_decrement (ppl_Pointset_Powerset_Uint8_Box_iterator_t *psit*) [related]

10.151.2.6 int ppl_Pointset_Powerset_Uint8_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Uint8_Box_iterator_t *ps*, ppl_const_Uint8_Box_t ∗ *d*) [related]

10.151.2.7 int ppl_Pointset_Powerset_Uint8_Box_iterator_end (ppl_Pointset_Powerset_-Uint8_Box_t *ps*, ppl_Pointset_Powerset_Uint8_Box_iterator_t *psit*) [related]

10.151.2.8 int ppl_Pointset_Powerset_Uint8_Box_iterator_equal_test (ppl_const_Pointset_-Powerset_Uint8_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t *y*) [related]

10.151.2.9 int ppl_Pointset_Powerset_Uint8_Box_iterator_increment (ppl_Pointset_Powerset_Uint8_Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.152 ppl_Pointset_Powerset_Uint8_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Uint8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Pointset_Powerset_Uint8_Box (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Uint8_Box (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Pointset_Powerset_Uint8_Box_with_complexity (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Pointset_Powerset_Uint8_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Uint8_Box_with_complexity (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Pointset_Powerset_Uint8_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint8_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint8_Box_space_dimension (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint8_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Uint8_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint8_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Uint8_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint8_Box_is_empty (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_is_universe (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_is_bounded (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint8_Box_t ph)

- int ppl_Pointset_Powerset_Uint8_Box_is_topologically_closed (ppl_const_Pointset_Powerset_-Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_is_discrete (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_topological_closure_assign (ppl_Pointset_Powerset_-Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_omega_reduce (ppl_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint8_-Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint8_Box_bounds_from_below (ppl_const_Pointset_Powerset_-Uint8_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Uint8_Box_maximize (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint8_Box_minimize (ppl_const_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Pointset_Powerset_Uint8_Box_maximize_with_point (ppl_const_Pointset_Powerset_-Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint8_Box_minimize_with_point (ppl_const_Pointset_Powerset_-Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Uint8_Box_contains_Pointset_Powerset_Uint8_Box (ppl_const_-Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_strictly_contains_Pointset_Powerset_Uint8_Box (ppl_-const_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_is_disjoint_from_Pointset_Powerset_Uint8_Box (ppl_-const_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_geometrically_covers_Pointset_Powerset_Uint8_Box (ppl_-const_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_geometrically_equals_Pointset_Powerset_Uint8_Box (ppl_-const_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_equals_Pointset_Powerset_Uint8_Box (ppl_const_-Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_OK (ppl_const_Pointset_Powerset_Uint8_Box_t ph)
- int ppl_Pointset_Powerset_Uint8_Box_add_constraint (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint8_Box_add_congruence (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint8_Box_add_constraints (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint8_Box_add_congruences (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint8_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint8_-Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Uint8_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint8_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Uint8_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint8_-Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Uint8_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint8_-Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Uint8_Box_intersection_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)

- int ppl_Pointset_Powerset_Uint8_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_difference_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_concatenate_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint8_Box_t x, ppl_const_Pointset_Powerset_Uint8_Box_t y)
- int ppl_Pointset_Powerset_Uint8_Box_constrains (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint8_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Uint8_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint8_Box_affine_image (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Uint8_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint8_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint8_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Uint8_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Uint8_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Uint8_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)

- int ppl_Pointset_Powerset_Uint8_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint8_-Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Uint8_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_-Uint8_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Uint8_Box_drop_some_non_integer_points_2 (ppl_Pointset_-Powerset_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Uint8_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_-Uint8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint8_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_-Uint8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint8_Box_size (ppl_const_Pointset_Powerset_Uint8_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Uint8_Box_add_disjunct (ppl_Pointset_Powerset_Uint8_Box_t ps, ppl_const_Uint8_Box_t d)
- int ppl_Pointset_Powerset_Uint8_Box_drop_disjunct (ppl_Pointset_Powerset_Uint8_Box_t ps, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t cit, ppl_Pointset_Powerset_Uint8_Box_-iterator_t it)
- int ppl_Pointset_Powerset_Uint8_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint8_Box_t ps, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t first, ppl_const_Pointset_Powerset_Uint8_-Box_iterator_t last)

10.152.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Uint8_Box_tag.

10.152.2 Friends And Related Function Documentation

10.152.2.1 int ppl_delete_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_-Box_t *ph*) `[related]`

10.152.2.2 int ppl_new_Pointset_Powerset_Uint8_Box_from_Congruence_System (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.152.2.3 int ppl_new_Pointset_Powerset_Uint8_Box_from_Constraint_System (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.152.2.4 int ppl_new_Pointset_Powerset_Uint8_Box_from_Pointset_Powerset_Uint8_Box (ppl_-Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint8_Box_t *ph*) `[related]`

10.152.2.5 int ppl_new_Pointset_Powerset_Uint8_Box_from_Pointset_Powerset_-Uint8_Box_with_complexity (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, int *complexity*) [related]

10.152.2.6 int ppl_new_Pointset_Powerset_Uint8_Box_from_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.152.2.7 int ppl_new_Pointset_Powerset_Uint8_Box_from_Uint8_Box (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.152.2.8 int ppl_new_Pointset_Powerset_Uint8_Box_from_Uint8_Box_with_complexity (ppl_Pointset_Powerset_Uint8_Box_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.152.2.9 int ppl_Pointset_Powerset_Uint8_Box_add_congruence (ppl_-Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.152.2.10 int ppl_Pointset_Powerset_Uint8_Box_add_congruences (ppl_Pointset_-Powerset_Uint8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.152.2.11 int ppl_Pointset_Powerset_Uint8_Box_add_constraint (ppl_-Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.152.2.12 int ppl_Pointset_Powerset_Uint8_Box_add_constraints (ppl_Pointset_-Powerset_Uint8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.152.2.13 int ppl_Pointset_Powerset_Uint8_Box_add_disjunct (ppl_Pointset_Powerset_Uint8_Box_t *ps*, ppl_const_Uint8_Box_t *d*) [related]

10.152.2.14 int ppl_Pointset_Powerset_Uint8_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.152.2.15 int ppl_Pointset_Powerset_Uint8_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.152.2.16 int ppl_Pointset_Powerset_Uint8_Box_affine_dimension (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.152.2.17 int ppl_Pointset_Powerset_Uint8_Box_affine_image (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.152.2.18 int ppl_Pointset_Powerset_Uint8_Box_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.152.2.19 int ppl_Pointset_Powerset_Uint8_Box_bounded_affine_image (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.152.2.20 int ppl_Pointset_Powerset_Uint8_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.152.2.21 int ppl_Pointset_Powerset_Uint8_Box_bounds_from_above (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.152.2.22 int ppl_Pointset_Powerset_Uint8_Box_bounds_from_below (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.152.2.23 int ppl_Pointset_Powerset_Uint8_Box_concatenate_assign (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.24 int ppl_Pointset_Powerset_Uint8_Box_constrains (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.152.2.25 int ppl_Pointset_Powerset_Uint8_Box_contains_integer_point (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.26 int ppl_Pointset_Powerset_Uint8_Box_contains_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.27 int ppl_Pointset_Powerset_Uint8_Box_difference_assign (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.28 int ppl_Pointset_Powerset_Uint8_Box_drop_disjunct (ppl_Pointset_Powerset_Uint8_Box_t *ps*, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t *cit*, ppl_Pointset_Powerset_Uint8_Box_iterator_t *it*) [related]

10.152.2.29 int ppl_Pointset_Powerset_Uint8_Box_drop_disjuncts (ppl_Pointset_Powerset_Uint8_Box_t *ps*, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Uint8_Box_iterator_t *last*) [related]

10.152.2.30 int ppl_Pointset_Powerset_Uint8_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Uint8_Box_t *ph*, int *complexity*) [related]

10.152.2.31 int ppl_Pointset_Powerset_Uint8_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.152.2.32 int ppl_Pointset_Powerset_Uint8_Box_equals_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.33 int ppl_Pointset_Powerset_Uint8_Box_expand_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.152.2.34 int ppl_Pointset_Powerset_Uint8_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Uint8_Box_t *ps*, size_t * *sz*) [related]

10.152.2.35 int ppl_Pointset_Powerset_Uint8_Box_fold_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.152.2.36 int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_image (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.152.2.37 int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.152.2.38 int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.152.2.39 int ppl_Pointset_Powerset_Uint8_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.152.2.40 int ppl_Pointset_Powerset_Uint8_Box_geometrically_covers_Pointset_-Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.41 int ppl_Pointset_Powerset_Uint8_Box_geometrically_equals_Pointset_-Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.42 int ppl_Pointset_Powerset_Uint8_Box_intersection_assign (ppl_Pointset_-Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.43 int ppl_Pointset_Powerset_Uint8_Box_is_bounded (ppl_const_Pointset_Powerset_-Uint8_Box_t *ph*) [related]

10.152.2.44 int ppl_Pointset_Powerset_Uint8_Box_is_discrete (ppl_const_Pointset_Powerset_-Uint8_Box_t *ph*) [related]

10.152.2.45 int ppl_Pointset_Powerset_Uint8_Box_is_disjoint_from_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.46 int ppl_Pointset_Powerset_Uint8_Box_is_empty (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.47 int ppl_Pointset_Powerset_Uint8_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.48 int ppl_Pointset_Powerset_Uint8_Box_is_universe (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.49 int ppl_Pointset_Powerset_Uint8_Box_map_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.152.2.50 int ppl_Pointset_Powerset_Uint8_Box_maximize (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.152.2.51 int ppl_Pointset_Powerset_Uint8_Box_maximize_with_point (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.152.2.52 int ppl_Pointset_Powerset_Uint8_Box_minimize (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.152.2.53 int ppl_Pointset_Powerset_Uint8_Box_minimize_with_point (ppl_const_Pointset_-Powerset_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.152.2.54 int ppl_Pointset_Powerset_Uint8_Box_OK (ppl_const_Pointset_Powerset_Uint8_-Box_t *ph*) [related]

10.152.2.55 int ppl_Pointset_Powerset_Uint8_Box_omega_reduce (ppl_Pointset_Powerset_-Uint8_Box_t *ph*) [related]

10.152.2.56 int ppl_Pointset_Powerset_Uint8_Box_pairwise_reduce (ppl_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.57 int ppl_Pointset_Powerset_Uint8_Box_refine_with_congruence (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.152.2.58 int ppl_Pointset_Powerset_Uint8_Box_refine_with_congruences (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.152.2.59 int ppl_Pointset_Powerset_Uint8_Box_refine_with_constraint (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.152.2.60 int ppl_Pointset_Powerset_Uint8_Box_refine_with_constraints (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.152.2.61 int ppl_Pointset_Powerset_Uint8_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.152.2.62 int ppl_Pointset_Powerset_Uint8_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.152.2.63 int ppl_Pointset_Powerset_Uint8_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.152.2.64 int ppl_Pointset_Powerset_Uint8_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.152.2.65 int ppl_Pointset_Powerset_Uint8_Box_remove_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.152.2.66 int ppl_Pointset_Powerset_Uint8_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.67 int ppl_Pointset_Powerset_Uint8_Box_size (ppl_const_Pointset_Powerset_Uint8_Box_t *ps*, size_t ∗ *sz*) [related]

10.152.2.68 int ppl_Pointset_Powerset_Uint8_Box_space_dimension (ppl_const_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.152.2.69 int ppl_Pointset_Powerset_Uint8_Box_strictly_contains_Pointset_Powerset_Uint8_Box (ppl_const_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.70 int ppl_Pointset_Powerset_Uint8_Box_time_elapse_assign (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.71 int ppl_Pointset_Powerset_Uint8_Box_topological_closure_assign (ppl_Pointset_Powerset_Uint8_Box_t *ph*) [related]

10.152.2.72 int ppl_Pointset_Powerset_Uint8_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Uint8_Box_t *ps*, size_t ∗ *sz*) [related]

10.152.2.73 int ppl_Pointset_Powerset_Uint8_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.152.2.74 int ppl_Pointset_Powerset_Uint8_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.152.2.75 int ppl_Pointset_Powerset_Uint8_Box_upper_bound_assign (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

10.152.2.76 int ppl_Pointset_Powerset_Uint8_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Uint8_Box_t *x*, ppl_const_Pointset_Powerset_Uint8_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.153 ppl_Pointset_Powerset_Z_Box_const_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Z_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Z_Box_const_iterator (ppl_Pointset_Powerset_Z_Box_const_iterator_t *pit)
- int ppl_new_Pointset_Powerset_Z_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Z_Box_const_iterator_t *px, ppl_const_Pointset_Powerset_Z_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Z_Box_t ps, ppl_Pointset_Powerset_Z_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_end (ppl_const_Pointset_Powerset_Z_Box_t ps, ppl_Pointset_Powerset_Z_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t x, ppl_const_Pointset_Powerset_Z_Box_const_iterator_t y)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_increment (ppl_Pointset_Powerset_Z_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_decrement (ppl_Pointset_Powerset_Z_Box_const_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t ps, ppl_const_Z_Box_t *d)
- int ppl_delete_Pointset_Powerset_Z_Box_const_iterator (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t psit)

10.153.1 Detailed Description

Types and functions for iterating on the disjuncts of a const ppl_Pointset_Powerset_Z_Box_tag.

10.153.2 Friends And Related Function Documentation

10.153.2.1 int ppl_delete_Pointset_Powerset_Z_Box_const_iterator (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t *psit*) [related]

10.153.2.2 int ppl_new_Pointset_Powerset_Z_Box_const_iterator (ppl_Pointset_Powerset_Z_Box_const_iterator_t * *pit*) [related]

10.153.2.3 int ppl_new_Pointset_Powerset_Z_Box_const_iterator_from_const_iterator (ppl_Pointset_Powerset_Z_Box_const_iterator_t * *px*, ppl_const_Pointset_Powerset_Z_Box_const_iterator_t *y*) [related]

10.153.2.4 int ppl_Pointset_Powerset_Z_Box_const_iterator_begin (ppl_const_Pointset_Powerset_Z_Box_t *ps*, ppl_Pointset_Powerset_Z_Box_const_iterator_t *psit*) [related]

10.153.2.5 int ppl_Pointset_Powerset_Z_Box_const_iterator_decrement (ppl_Pointset_Powerset_Z_Box_const_iterator_t *psit*) [related]

10.153.2.6 int ppl_Pointset_Powerset_Z_Box_const_iterator_dereference (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t *ps*, ppl_const_Z_Box_t * *d*) [related]

10.153.2.7 int ppl_Pointset_Powerset_Z_Box_const_iterator_end (ppl_const_Pointset_Powerset_Z_Box_t *ps*, ppl_Pointset_Powerset_Z_Box_const_iterator_t *psit*) [related]

10.153.2.8 int ppl_Pointset_Powerset_Z_Box_const_iterator_equal_test (ppl_const_Pointset_Powerset_Z_Box_const_iterator_t *x*, ppl_const_Pointset_Powerset_Z_Box_const_iterator_t *y*) [related]

10.153.2.9 int ppl_Pointset_Powerset_Z_Box_const_iterator_increment (ppl_Pointset_Powerset_Z_Box_const_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.154 ppl_Pointset_Powerset_Z_Box_iterator_tag Interface Reference

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Z_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_new_Pointset_Powerset_Z_Box_iterator (ppl_Pointset_Powerset_Z_Box_iterator_t *pit)

- int ppl_new_Pointset_Powerset_Z_Box_iterator_from_iterator (ppl_Pointset_Powerset_Z_Box_-iterator_t *px, ppl_const_Pointset_Powerset_Z_Box_iterator_t y)
- int ppl_Pointset_Powerset_Z_Box_iterator_begin (ppl_Pointset_Powerset_Z_Box_t ps, ppl_-Pointset_Powerset_Z_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_iterator_end (ppl_Pointset_Powerset_Z_Box_t ps, ppl_-Pointset_Powerset_Z_Box_iterator_t psit)
- int ppl_Pointset_Powerset_Z_Box_iterator_equal_test (ppl_const_Pointset_Powerset_Z_Box_-iterator_t x, ppl_const_Pointset_Powerset_Z_Box_iterator_t y)
- int ppl_Pointset_Powerset_Z_Box_iterator_increment (ppl_Pointset_Powerset_Z_Box_iterator_-t psit)
- int ppl_Pointset_Powerset_Z_Box_iterator_decrement (ppl_Pointset_Powerset_Z_Box_iterator_-t psit)
- int ppl_Pointset_Powerset_Z_Box_iterator_dereference (ppl_const_Pointset_Powerset_Z_Box_-iterator_t ps, ppl_const_Z_Box_t *d)
- int ppl_delete_Pointset_Powerset_Z_Box_iterator (ppl_const_Pointset_Powerset_Z_Box_iterator_t psit)

10.154.1 Detailed Description

Types and functions for iterating on the disjuncts of a ppl_Pointset_Powerset_Z_Box_tag.

10.154.2 Friends And Related Function Documentation

10.154.2.1 int ppl_delete_Pointset_Powerset_Z_Box_iterator (ppl_const_Pointset_Powerset_Z_-Box_iterator_t *psit*) `[related]`

10.154.2.2 int ppl_new_Pointset_Powerset_Z_Box_iterator (ppl_Pointset_Powerset_Z_Box_-iterator_t * *pit*) `[related]`

10.154.2.3 int ppl_new_Pointset_Powerset_Z_Box_iterator_from_iterator (ppl_Pointset_-Powerset_Z_Box_iterator_t * *px*, ppl_const_Pointset_Powerset_Z_Box_iterator_t *y*) `[related]`

10.154.2.4 int ppl_Pointset_Powerset_Z_Box_iterator_begin (ppl_Pointset_Powerset_Z_Box_t *ps*, ppl_Pointset_Powerset_Z_Box_iterator_t *psit*) `[related]`

10.154.2.5 int ppl_Pointset_Powerset_Z_Box_iterator_decrement (ppl_Pointset_Powerset_Z_-Box_iterator_t *psit*) `[related]`

10.154.2.6 int ppl_Pointset_Powerset_Z_Box_iterator_dereference (ppl_const_-Pointset_Powerset_Z_Box_iterator_t *ps*, ppl_const_Z_Box_t ∗ *d*) [related]

10.154.2.7 int ppl_Pointset_Powerset_Z_Box_iterator_end (ppl_Pointset_Powerset_Z_Box_t *ps*, ppl_Pointset_Powerset_Z_Box_iterator_t *psit*) [related]

10.154.2.8 int ppl_Pointset_Powerset_Z_Box_iterator_equal_test (ppl_const_Pointset_-Powerset_Z_Box_iterator_t *x*, ppl_const_Pointset_Powerset_Z_Box_iterator_t *y*) [related]

10.154.2.9 int ppl_Pointset_Powerset_Z_Box_iterator_increment (ppl_Pointset_Powerset_Z_-Box_iterator_t *psit*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.155 ppl_Pointset_Powerset_Z_Box_tag Interface Reference

Types and functions for ppl_Pointset_Powerset_Z_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_new_Pointset_Powerset_Z_Box_from_space_dimension (ppl_Pointset_Powerset_Z_Box_-t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Pointset_Powerset_Z_Box_from_Pointset_Powerset_Z_Box (ppl_Pointset_Powerset_-Z_Box_t ∗pph, ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_new_Pointset_Powerset_Z_Box_from_Z_Box (ppl_Pointset_Powerset_Z_Box_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Pointset_Powerset_Z_Box_from_Pointset_Powerset_Z_Box_with_complexity (ppl_-Pointset_Powerset_Z_Box_t ∗pph, ppl_const_Pointset_Powerset_Z_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Z_Box_from_Z_Box_with_complexity (ppl_Pointset_Powerset_-Z_Box_t ∗pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Pointset_Powerset_Z_Box_from_Constraint_System (ppl_Pointset_Powerset_Z_-Box_t ∗pph, ppl_const_Constraint_System_t cs)

- int ppl_new_Pointset_Powerset_Z_Box_from_Congruence_System (ppl_Pointset_Powerset_Z_-Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Z_Box_space_dimension (ppl_const_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Z_Box_affine_dimension (ppl_const_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type *m)
- int ppl_Pointset_Powerset_Z_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Z_-Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Z_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Z_-Box_t ph, ppl_const_Generator_t c)
- int ppl_Pointset_Powerset_Z_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Z_-Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Z_Box_is_empty (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_is_universe (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_is_bounded (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_contains_integer_point (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Z_-Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_is_discrete (ppl_const_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_topological_closure_assign (ppl_Pointset_Powerset_Z_Box_-t ph)
- int ppl_Pointset_Powerset_Z_Box_pairwise_reduce (ppl_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_omega_reduce (ppl_Pointset_Powerset_Z_Box_t ph)
- int ppl_Pointset_Powerset_Z_Box_bounds_from_above (ppl_const_Pointset_Powerset_Z_Box_-t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Z_Box_bounds_from_below (ppl_const_Pointset_Powerset_Z_Box_-t ph, ppl_const_Linear_Expression_t le)
- int ppl_Pointset_Powerset_Z_Box_maximize (ppl_const_Pointset_Powerset_Z_Box_t ph, ppl_-const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Z_Box_minimize (ppl_const_Pointset_Powerset_Z_Box_t ph, ppl_-const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Pointset_Powerset_Z_Box_maximize_with_point (ppl_const_Pointset_Powerset_Z_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Z_Box_minimize_with_point (ppl_const_Pointset_Powerset_Z_Box_-t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Pointset_Powerset_Z_Box_contains_Pointset_Powerset_Z_Box (ppl_const_Pointset_-Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_strictly_contains_Pointset_Powerset_Z_Box (ppl_const_-Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_is_disjoint_from_Pointset_Powerset_Z_Box (ppl_const_-Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_geometrically_covers_Pointset_Powerset_Z_Box (ppl_const_-Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_geometrically_equals_Pointset_Powerset_Z_Box (ppl_const_-Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_equals_Pointset_Powerset_Z_Box (ppl_const_Pointset_-Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_OK (ppl_const_Pointset_Powerset_Z_Box_t ph)

- int ppl_Pointset_Powerset_Z_Box_add_constraint (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Z_Box_add_congruence (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Z_Box_add_constraints (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Z_Box_add_congruences (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Z_Box_refine_with_constraint (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Pointset_Powerset_Z_Box_refine_with_congruence (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Pointset_Powerset_Z_Box_refine_with_constraints (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Pointset_Powerset_Z_Box_refine_with_congruences (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Pointset_Powerset_Z_Box_intersection_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_upper_bound_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_difference_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_concatenate_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_time_elapse_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Z_Box_t x, ppl_const_Pointset_Powerset_Z_Box_t y)
- int ppl_Pointset_Powerset_Z_Box_constrains (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Z_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var)
- int ppl_Pointset_Powerset_Z_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Z_Box_affine_image (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Z_Box_affine_preimage (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Z_Box_bounded_affine_image (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Z_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Z_Box_generalized_affine_image (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Pointset_Powerset_Z_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

- int ppl_Pointset_Powerset_Z_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Z_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Z_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Pointset_Powerset_Z_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Z_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Z_Box_remove_space_dimensions (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Pointset_Powerset_Z_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Z_Box_expand_space_dimension (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Pointset_Powerset_Z_Box_fold_space_dimensions (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Pointset_Powerset_Z_Box_map_space_dimensions (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Pointset_Powerset_Z_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Z_Box_t ph, int complexity)
- int ppl_Pointset_Powerset_Z_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Pointset_Powerset_Z_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Z_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Z_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Z_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Z_Box_size (ppl_const_Pointset_Powerset_Z_Box_t ps, size_t ∗sz)
- int ppl_Pointset_Powerset_Z_Box_add_disjunct (ppl_Pointset_Powerset_Z_Box_t ps, ppl_const_Z_Box_t d)
- int ppl_Pointset_Powerset_Z_Box_drop_disjunct (ppl_Pointset_Powerset_Z_Box_t ps, ppl_const_Pointset_Powerset_Z_Box_iterator_t cit, ppl_Pointset_Powerset_Z_Box_iterator_t it)
- int ppl_Pointset_Powerset_Z_Box_drop_disjuncts (ppl_Pointset_Powerset_Z_Box_t ps, ppl_const_Pointset_Powerset_Z_Box_iterator_t first, ppl_const_Pointset_Powerset_Z_Box_iterator_t last)

10.155.1 Detailed Description

Types and functions for ppl_Pointset_Powerset_Z_Box_tag.

10.155.2 Friends And Related Function Documentation

10.155.2.1 int ppl_delete_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.2 int ppl_new_Pointset_Powerset_Z_Box_from_Congruence_System (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.155.2.3 int ppl_new_Pointset_Powerset_Z_Box_from_Constraint_System (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.155.2.4 int ppl_new_Pointset_Powerset_Z_Box_from_Pointset_Powerset_Z_Box (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.5 int ppl_new_Pointset_Powerset_Z_Box_from_Pointset_Powerset_-Z_Box_with_complexity (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Pointset_Powerset_Z_Box_t *ph*, int *complexity*) [related]

10.155.2.6 int ppl_new_Pointset_Powerset_Z_Box_from_space_dimension (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.155.2.7 int ppl_new_Pointset_Powerset_Z_Box_from_Z_Box (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.155.2.8 int ppl_new_Pointset_Powerset_Z_Box_from_Z_Box_with_complexity (ppl_Pointset_Powerset_Z_Box_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.155.2.9 int ppl_Pointset_Powerset_Z_Box_add_congruence (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.155.2.10 int ppl_Pointset_Powerset_Z_Box_add_congruences (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.155.2.11 int ppl_Pointset_Powerset_Z_Box_add_constraint (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.155.2.12 int ppl_Pointset_Powerset_Z_Box_add_constraints (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.155.2.13 int ppl_Pointset_Powerset_Z_Box_add_disjunct (ppl_Pointset_Powerset_Z_Box_t *ps*, ppl_const_Z_Box_t *d*) [related]

10.155.2.14 int ppl_Pointset_Powerset_Z_Box_add_space_dimensions_and_embed (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.155.2.15 int ppl_Pointset_Powerset_Z_Box_add_space_dimensions_and_project (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.155.2.16 int ppl_Pointset_Powerset_Z_Box_affine_dimension (ppl_const_-Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.155.2.17 int ppl_Pointset_Powerset_Z_Box_affine_image (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.155.2.18 int ppl_Pointset_Powerset_Z_Box_affine_preimage (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.155.2.19 int ppl_Pointset_Powerset_Z_Box_bounded_affine_image (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.155.2.20 int ppl_Pointset_Powerset_Z_Box_bounded_affine_preimage (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) `[related]`

10.155.2.21 int ppl_Pointset_Powerset_Z_Box_bounds_from_above (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.155.2.22 int ppl_Pointset_Powerset_Z_Box_bounds_from_below (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*) `[related]`

10.155.2.23 int ppl_Pointset_Powerset_Z_Box_concatenate_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) `[related]`

10.155.2.24 int ppl_Pointset_Powerset_Z_Box_constrains (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*) `[related]`

10.155.2.25 int ppl_Pointset_Powerset_Z_Box_contains_integer_point (ppl_const_Pointset_Powerset_Z_Box_t *ph*) `[related]`

10.155.2.26 int ppl_Pointset_Powerset_Z_Box_contains_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) `[related]`

10.155.2.27 int ppl_Pointset_Powerset_Z_Box_difference_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.28 int ppl_Pointset_Powerset_Z_Box_drop_disjunct (ppl_Pointset_Powerset_Z_Box_t *ps*, ppl_const_Pointset_Powerset_Z_Box_iterator_t *cit*, ppl_Pointset_Powerset_Z_Box_iterator_t *it*) [related]

10.155.2.29 int ppl_Pointset_Powerset_Z_Box_drop_disjuncts (ppl_Pointset_Powerset_Z_Box_t *ps*, ppl_const_Pointset_Powerset_Z_Box_iterator_t *first*, ppl_const_Pointset_Powerset_Z_Box_iterator_t *last*) [related]

10.155.2.30 int ppl_Pointset_Powerset_Z_Box_drop_some_non_integer_points (ppl_Pointset_Powerset_Z_Box_t *ph*, int *complexity*) [related]

10.155.2.31 int ppl_Pointset_Powerset_Z_Box_drop_some_non_integer_points_2 (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.155.2.32 int ppl_Pointset_Powerset_Z_Box_equals_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.33 int ppl_Pointset_Powerset_Z_Box_expand_space_dimension (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.155.2.34 int ppl_Pointset_Powerset_Z_Box_external_memory_in_bytes (ppl_const_Pointset_Powerset_Z_Box_t *ps*, size_t * *sz*) [related]

10.155.2.35 int ppl_Pointset_Powerset_Z_Box_fold_space_dimensions (ppl_Pointset_Powerset_-Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.155.2.36 int ppl_Pointset_Powerset_Z_Box_generalized_affine_image (ppl_Pointset_-Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.155.2.37 int ppl_Pointset_Powerset_Z_Box_generalized_affine_image_lhs_rhs (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.155.2.38 int ppl_Pointset_Powerset_Z_Box_generalized_affine_preimage (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.155.2.39 int ppl_Pointset_Powerset_Z_Box_generalized_affine_preimage_lhs_rhs (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.155.2.40 int ppl_Pointset_Powerset_Z_Box_geometrically_covers_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.41 int ppl_Pointset_Powerset_Z_Box_geometrically_equals_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.42 int ppl_Pointset_Powerset_Z_Box_intersection_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.43 int ppl_Pointset_Powerset_Z_Box_is_bounded (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.44 int ppl_Pointset_Powerset_Z_Box_is_discrete (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.45 int ppl_Pointset_Powerset_Z_Box_is_disjoint_from_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.46 int ppl_Pointset_Powerset_Z_Box_is_empty (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.47 int ppl_Pointset_Powerset_Z_Box_is_topologically_closed (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.48 int ppl_Pointset_Powerset_Z_Box_is_universe (ppl_const_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.49 int ppl_Pointset_Powerset_Z_Box_map_space_dimensions (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.155.2.50 int ppl_Pointset_Powerset_Z_Box_maximize (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.155.2.51 int ppl_Pointset_Powerset_Z_Box_maximize_with_point (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.155.2.52 int ppl_Pointset_Powerset_Z_Box_minimize (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) `[related]`

10.155.2.53 int ppl_Pointset_Powerset_Z_Box_minimize_with_point (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) `[related]`

10.155.2.54 int ppl_Pointset_Powerset_Z_Box_OK (ppl_const_Pointset_Powerset_Z_Box_t *ph*) `[related]`

10.155.2.55 int ppl_Pointset_Powerset_Z_Box_omega_reduce (ppl_Pointset_Powerset_Z_Box_t *ph*) `[related]`

10.155.2.56 int ppl_Pointset_Powerset_Z_Box_pairwise_reduce (ppl_Pointset_Powerset_Z_Box_t *ph*) `[related]`

10.155.2.57 int ppl_Pointset_Powerset_Z_Box_refine_with_congruence (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.155.2.58 int ppl_Pointset_Powerset_Z_Box_refine_with_congruences (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.155.2.59 int ppl_Pointset_Powerset_Z_Box_refine_with_constraint (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.155.2.60 int ppl_Pointset_Powerset_Z_Box_refine_with_constraints (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.155.2.61 int ppl_Pointset_Powerset_Z_Box_relation_with_Congruence (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.155.2.62 int ppl_Pointset_Powerset_Z_Box_relation_with_Constraint (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.155.2.63 int ppl_Pointset_Powerset_Z_Box_relation_with_Generator (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.155.2.64 int ppl_Pointset_Powerset_Z_Box_remove_higher_space_dimensions (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.155.2.65 int ppl_Pointset_Powerset_Z_Box_remove_space_dimensions (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.155.2.66 int ppl_Pointset_Powerset_Z_Box_simplify_using_context_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.67 int ppl_Pointset_Powerset_Z_Box_size (ppl_const_Pointset_Powerset_Z_Box_t *ps*, size_t * *sz*) [related]

10.155.2.68 int ppl_Pointset_Powerset_Z_Box_space_dimension (ppl_const_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.155.2.69 int ppl_Pointset_Powerset_Z_Box_strictly_contains_Pointset_Powerset_Z_Box (ppl_const_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.70 int ppl_Pointset_Powerset_Z_Box_time_elapse_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.71 int ppl_Pointset_Powerset_Z_Box_topological_closure_assign (ppl_Pointset_Powerset_Z_Box_t *ph*) [related]

10.155.2.72 int ppl_Pointset_Powerset_Z_Box_total_memory_in_bytes (ppl_const_Pointset_Powerset_Z_Box_t *ps*, size_t ∗ *sz*) [related]

10.155.2.73 int ppl_Pointset_Powerset_Z_Box_unconstrain_space_dimension (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *var*) [related]

10.155.2.74 int ppl_Pointset_Powerset_Z_Box_unconstrain_space_dimensions (ppl_Pointset_Powerset_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.155.2.75 int ppl_Pointset_Powerset_Z_Box_upper_bound_assign (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

10.155.2.76 int ppl_Pointset_Powerset_Z_Box_upper_bound_assign_if_exact (ppl_Pointset_Powerset_Z_Box_t *x*, ppl_const_Pointset_Powerset_Z_Box_t *y*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.156 ppl_Polyhedron_tag Interface Reference

Types and functions for the domains of C and NNC convex polyhedra.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_new_C_Polyhedron_from_Int8_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Int8_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_C_Polyhedron_from_Int16_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Int16_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_C_Polyhedron_from_Int32_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Int32_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_C_Polyhedron_from_Int64_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Int64_Box (ppl_Polyhedron_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_C_Polyhedron_from_Uint8_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Uint8_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_C_Polyhedron_from_Uint16_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Uint16_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint16_-Box_t ph)
- int ppl_new_C_Polyhedron_from_Uint32_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Uint32_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint32_-Box_t ph)
- int ppl_new_C_Polyhedron_from_Uint64_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Uint64_Box (ppl_Polyhedron_t ∗pph, ppl_const_Uint64_-Box_t ph)
- int ppl_new_C_Polyhedron_from_Z_Box (ppl_Polyhedron_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Z_Box (ppl_Polyhedron_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_C_Polyhedron_from_Rational_Box (ppl_Polyhedron_t ∗pph, ppl_const_Rational_-Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Rational_Box (ppl_Polyhedron_t ∗pph, ppl_const_Rational_-Box_t ph)

- int ppl_new_C_Polyhedron_from_BD_Shape_int8_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int8_t_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int8_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int8_t_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_int16_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int16_t_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int16_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int16_t_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_int32_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int32_t_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int32_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int32_t_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_int64_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int64_t_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int64_t (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_int64_t_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_mpz_class (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_mpz_class_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_mpz_class (ppl_Polyhedron_t *pph, ppl_const_-BD_Shape_mpz_class_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_mpq_class (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_mpq_class (ppl_Polyhedron_t *pph, ppl_const_-BD_Shape_mpq_class_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_C_Polyhedron_from_Grid (ppl_Polyhedron_t *pph, ppl_const_Grid_t ph)
- int ppl_new_NNC_Polyhedron_from_Grid (ppl_Polyhedron_t *pph, ppl_const_Grid_t ph)
- int ppl_new_C_Polyhedron_from_Float_Box (ppl_Polyhedron_t *pph, ppl_const_Float_Box_t ph)

- int ppl_new_NNC_Polyhedron_from_Float_Box (ppl_Polyhedron_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_float (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_float_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_float (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_float_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_float (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_float_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_float (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_float_t ph)
- int ppl_new_C_Polyhedron_from_Double_Box (ppl_Polyhedron_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Double_Box (ppl_Polyhedron_t *pph, ppl_const_Double_-Box_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_double (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_double_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_double (ppl_Polyhedron_t *pph, ppl_const_BD_-Shape_double_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_double (ppl_Polyhedron_t *pph, ppl_const_-Octagonal_Shape_double_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_double (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_double_t ph)
- int ppl_new_C_Polyhedron_from_Long_Double_Box (ppl_Polyhedron_t *pph, ppl_const_Long_-Double_Box_t ph)
- int ppl_new_NNC_Polyhedron_from_Long_Double_Box (ppl_Polyhedron_t *pph, ppl_const_-Long_Double_Box_t ph)
- int ppl_new_C_Polyhedron_from_BD_Shape_long_double (ppl_Polyhedron_t *pph, ppl_const_-BD_Shape_long_double_t ph)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_long_double (ppl_Polyhedron_t *pph, ppl_-const_BD_Shape_long_double_t ph)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_long_double (ppl_Polyhedron_t *pph, ppl_-const_Octagonal_Shape_long_double_t ph)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_long_double (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_C_Polyhedron_from_Int8_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int8_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Int8_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int8_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Int16_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int16_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Int16_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int16_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Int32_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int32_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Int32_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int32_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Int64_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int64_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Int64_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Int64_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Uint8_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_-const_Uint8_Box_t ph, int complexity)

- int ppl_new_NNC_Polyhedron_from_Uint8_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Uint16_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Uint16_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Uint32_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Uint32_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Uint64_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Uint64_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Z_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Z_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Rational_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Rational_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int8_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int8_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int16_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)

- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int16_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int32_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int32_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_int64_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int64_t_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Grid_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Grid_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Float_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Float_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Double_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Double_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)

- int ppl_new_NNC_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_C_Polyhedron_from_Octagonal_Shape_long_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_long_double_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_Polyhedron_relation_with_Congruence (ppl_const_Polyhedron_t ph, ppl_const_Congruence_t c)
- int ppl_Polyhedron_minimize (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Polyhedron_frequency (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Polyhedron_upper_bound_assign_if_exact (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)
- int ppl_Polyhedron_poly_hull_assign_if_exact (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)
- int ppl_Polyhedron_drop_some_non_integer_points (ppl_Polyhedron_t ph, int complexity)
- int ppl_Polyhedron_drop_some_non_integer_points_2 (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Polyhedron_widening_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, unsigned *tp)
- int ppl_Polyhedron_widening_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)
- int ppl_Polyhedron_linear_partition (ppl_const_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_Polyhedron_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Polyhedron_wrap_assign (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_termination_test_MS_C_Polyhedron (ppl_const_Polyhedron_t pset)
- int ppl_termination_test_PR_C_Polyhedron (ppl_const_Polyhedron_t pset)
- int ppl_termination_test_MS_NNC_Polyhedron (ppl_const_Polyhedron_t pset)
- int ppl_termination_test_PR_NNC_Polyhedron (ppl_const_Polyhedron_t pset)
- int ppl_one_affine_ranking_function_MS_C_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_C_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_MS_NNC_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_NNC_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_C_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_C_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_MS_NNC_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_NNC_Polyhedron (ppl_const_Polyhedron_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after)
- int ppl_termination_test_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after)

- int ppl_termination_test_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after)
- int ppl_termination_test_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after)
- int ppl_one_affine_ranking_function_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t pset_before, ppl_const_Polyhedron_t pset_after, ppl_Polyhedron_t ph)

Constructors and Assignment for C_Polyhedron

- int ppl_new_C_Polyhedron_from_space_dimension (ppl_Polyhedron_t ∗pph, ppl_dimension_type d, int empty)

  Builds a C polyhedron of dimension `d` and writes an handle to it at address `pph`. If `empty` is different from zero, the newly created polyhedron will be empty; otherwise, it will be a universe polyhedron.

- int ppl_new_C_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph)

  Builds a C polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

- int ppl_new_C_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)

  Builds a C polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

- int ppl_new_C_Polyhedron_from_Constraint_System (ppl_Polyhedron_t ∗pph, ppl_const_Constraint_System_t cs)

  Builds a new C polyhedron from the system of constraints `cs` and writes a handle for the newly created polyhedron at address `pph`.

- int ppl_new_C_Polyhedron_recycle_Constraint_System (ppl_Polyhedron_t ∗pph, ppl_Constraint_System_t cs)

  Builds a new C polyhedron recycling the system of constraints `cs` and writes a handle for the newly created polyhedron at address `pph`.

- int ppl_new_C_Polyhedron_from_Congruence_System (ppl_Polyhedron_t ∗pph, ppl_const_Congruence_System_t cs)

  Builds a new C polyhedron from the system of congruences `cs` and writes a handle for the newly created polyhedron at address `pph`.

- int ppl_new_C_Polyhedron_recycle_Congruence_System (ppl_Polyhedron_t *pph, ppl_Congruence_System_t cs)

  Builds a new C polyhedron recycling the system of congruences `cs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_assign_C_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t dst, ppl_const_Polyhedron_t src)

  Assigns a copy of the C polyhedron `src` *to the C polyhedron* `dst`*.*

Constructors and Assignment for NNC_Polyhedron

- int ppl_new_NNC_Polyhedron_from_space_dimension (ppl_Polyhedron_t *pph, ppl_dimension_type d, int empty)

  Builds an NNC polyhedron of dimension `d` *and writes an handle to it at address* `pph`*. If* `empty` *is different from zero, the newly created polyhedron will be empty; otherwise, it will be a universe polyhedron.*

- int ppl_new_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t *pph, ppl_const_Polyhedron_t ph)

  Builds an NNC polyhedron that is a copy of `ph`*; writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Polyhedron_t *pph, ppl_const_Polyhedron_t ph, int complexity)

  Builds an NNC polyhedron that is a copy of `ph`*; writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_from_Constraint_System (ppl_Polyhedron_t *pph, ppl_const_Constraint_System_t cs)

  Builds a new NNC polyhedron from the system of constraints `cs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_recycle_Constraint_System (ppl_Polyhedron_t *pph, ppl_Constraint_System_t cs)

  Builds a new NNC polyhedron recycling the system of constraints `cs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_from_Congruence_System (ppl_Polyhedron_t *pph, ppl_const_Congruence_System_t cs)

  Builds a new NNC polyhedron from the system of congruences `cs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_recycle_Congruence_System (ppl_Polyhedron_t *pph, ppl_Congruence_System_t cs)

  Builds a new NNC polyhedron recycling the system of congruences `cs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_assign_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t dst, ppl_const_Polyhedron_t src)

  Assigns a copy of the NNC polyhedron `src` *to the NNC polyhedron* `dst`*.*

Constructors Behaving as Conversion Operators

Besides the conversions listed here below, the library also provides conversion operators that build a semantic geometric description starting from ***any*** *other semantic geometric description (e.g., ppl_new_Grid_from_C_Polyhedron, ppl_new_C_Polyhedron_from_BD_Shape_mpq_class, etc.). Clearly,* *the conversion operators are only available if both the source and the target semantic geometric descriptions have been enabled when configuring the library. The conversions also taking as argument a complexity class sometimes provide non-trivial precision/efficiency trade-offs.*

- int ppl_new_C_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph)
  Builds a C polyhedron that is a copy of the topological closure of the NNC polyhedron `ph`; writes a handle for the newly created polyhedron at address `pph`.
- int ppl_new_C_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
  Builds a C polyhedron that approximates NNC_Polyhedron `ph`, using an algorithm whose complexity does not exceed `complexity`; writes a handle for the newly created polyhedron at address `pph`.
- int ppl_new_NNC_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph)
  Builds an NNC polyhedron that is a copy of the C polyhedron `ph`; writes a handle for the newly created polyhedron at address `pph`.
- int ppl_new_NNC_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Polyhedron_t ∗pph, ppl_const_Polyhedron_t ph, int complexity)
  Builds an NNC polyhedron that approximates C_Polyhedron `ph`, using an algorithm whose complexity does not exceed `complexity`; writes a handle for the newly created polyhedron at address `pph`.

Destructor for (C or NNC) Polyhedra

- int ppl_delete_Polyhedron (ppl_const_Polyhedron_t ph)
  Invalidates the handle `ph`: this makes sure the corresponding resources will eventually be released.

Functions that Do Not Modify the Polyhedron

- int ppl_Polyhedron_space_dimension (ppl_const_Polyhedron_t ph, ppl_dimension_type ∗m)
  Writes to `m` the dimension of the vector space enclosing `ph`.
- int ppl_Polyhedron_affine_dimension (ppl_const_Polyhedron_t ph, ppl_dimension_type ∗m)
  Writes to `m` the affine dimension of `ph` (not to be confused with the dimension of its enclosing vector space) or 0, if `ph` is empty.
- int ppl_Polyhedron_relation_with_Constraint (ppl_const_Polyhedron_t ph, ppl_const_Constraint_t c)
  Checks the relation between the polyhedron `ph` and the constraint `c`.
- int ppl_Polyhedron_relation_with_Generator (ppl_const_Polyhedron_t ph, ppl_const_Generator_t g)
  Checks the relation between the polyhedron `ph` and the generator `g`.
- int ppl_Polyhedron_get_constraints (ppl_const_Polyhedron_t ph, ppl_const_Constraint_System_t ∗pcs)
  Writes a const handle to the constraint system defining the polyhedron `ph` at address `pcs`.
- int ppl_Polyhedron_get_congruences (ppl_const_Polyhedron_t ph, ppl_const_Congruence_System_t ∗pcs)
  Writes at address `pcs` a const handle to a system of congruences approximating the polyhedron `ph`.

- int ppl_Polyhedron_get_minimized_constraints (ppl_const_Polyhedron_t ph, ppl_const_Constraint_System_t *pcs)

  Writes a const handle to the minimized constraint system defining the polyhedron `ph` *at address* `pcs`.

- int ppl_Polyhedron_get_minimized_congruences (ppl_const_Polyhedron_t ph, ppl_const_Congruence_System_t *pcs)

  Writes at address `pcs` *a const handle to a system of minimized congruences approximating the polyhedron* `ph`.

- int ppl_Polyhedron_is_empty (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is empty; returns 0 if* `ph` *is not empty.*

- int ppl_Polyhedron_is_universe (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is a universe polyhedron; returns 0 if it is not.*

- int ppl_Polyhedron_is_bounded (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is bounded; returns 0 if* `ph` *is unbounded.*

- int ppl_Polyhedron_contains_integer_point (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *contains at least one integer point; returns 0 otherwise.*

- int ppl_Polyhedron_is_topologically_closed (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is topologically closed; returns 0 if* `ph` *is not topologically closed.*

- int ppl_Polyhedron_is_discrete (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is a discrete set; returns 0 if* `ph` *is not a discrete set.*

- int ppl_Polyhedron_constrains (ppl_Polyhedron_t ph, ppl_dimension_type var)

  Returns a positive integer if `ph` *constrains* `var`*; returns 0 if* `ph` *does not constrain* `var`.

- int ppl_Polyhedron_bounds_from_above (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le)

  Returns a positive integer if `le` *is bounded from above in* `ph`*; returns 0 otherwise.*

- int ppl_Polyhedron_bounds_from_below (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le)

  Returns a positive integer if `le` *is bounded from below in* `ph`*; returns 0 otherwise.*

- int ppl_Polyhedron_maximize_with_point (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t sup_n, ppl_Coefficient_t sup_d, int *pmaximum, ppl_Generator_t point)

  Returns a positive integer if `ph` *is not empty and* `le` *is bounded from above in* `ph`*, in which case the supremum value and a point where* `le` *reaches it are computed.*

- int ppl_Polyhedron_maximize (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t sup_n, ppl_Coefficient_t sup_d, int *pmaximum)

  The same as ppl_Polyhedron_maximize_with_point, but without the output argument for the location where the supremum value is reached.

- int ppl_Polyhedron_minimize_with_point (ppl_const_Polyhedron_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t inf_n, ppl_Coefficient_t inf_d, int *pminimum, ppl_Generator_t point)

  Returns a positive integer if `ph` *is not empty and* `le` *is bounded from below in* `ph`*, in which case the infimum value and a point where* `le` *reaches it are computed.*

- int ppl_Polyhedron_minimize_with_point (ppl_const_Polyhedron_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t inf_n, ppl_Coefficient_t inf_d, int ∗pminimum)

  The same as ppl_Polyhedron_minimize_with_point, but without the output argument for the location where the infimum value is reached.

- int ppl_Polyhedron_contains_Polyhedron (ppl_const_Polyhedron_t x, ppl_const_Polyhedron_-t y)

  Returns a positive integer if `x` *contains or is equal to* `y`*; returns 0 if it does not.*

- int ppl_Polyhedron_strictly_contains_Polyhedron (ppl_const_Polyhedron_t x, ppl_const_-Polyhedron_t y)

  Returns a positive integer if `x` *strictly contains* `y`*; returns 0 if it does not.*

- int ppl_Polyhedron_is_disjoint_from_Polyhedron (ppl_const_Polyhedron_t x, ppl_const_-Polyhedron_t y)

  Returns a positive integer if `x` *and* `y` *are disjoint; returns 0 if they are not.*

- int ppl_Polyhedron_equals_Polyhedron (ppl_const_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Returns a positive integer if `x` *and* `y` *are the same polyhedron; returns 0 if they are different.*

- int ppl_Polyhedron_OK (ppl_const_Polyhedron_t ph)

  Returns a positive integer if `ph` *is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if* `ph` *is broken. Useful for debugging purposes.*

- int ppl_Polyhedron_external_memory_in_bytes (ppl_const_Polyhedron_t ph, size_t ∗sz)

  Writes to `sz` *a lower bound to the size in bytes of the memory managed by* `ph`*.*

- int ppl_Polyhedron_total_memory_in_bytes (ppl_const_Polyhedron_t ph, size_t ∗sz)

  Writes to `sz` *a lower bound to the size in bytes of the memory managed by* `ph`*.*

Space Dimension Preserving Functions that May Modify the Polyhedron

- int ppl_Polyhedron_add_constraint (ppl_Polyhedron_t ph, ppl_const_Constraint_t c)

  Adds a copy of the constraint `c` *to the system of constraints of* `ph`*.*

- int ppl_Polyhedron_add_congruence (ppl_Polyhedron_t ph, ppl_const_Congruence_t c)

  Adds a copy of the congruence `c` *to polyhedron of* `ph`*.*

- int ppl_Polyhedron_add_constraints (ppl_Polyhedron_t ph, ppl_const_Constraint_System_t cs)

  Adds a copy of the system of constraints `cs` *to the system of constraints of* `ph`*.*

- int ppl_Polyhedron_add_congruences (ppl_Polyhedron_t ph, ppl_const_Congruence_System_-t cs)

  Adds a copy of the system of congruences `cs` *to the polyhedron* `ph`*.*

- int ppl_Polyhedron_add_recycled_constraints (ppl_Polyhedron_t ph, ppl_Constraint_System_-t cs)

  Adds the system of constraints `cs` *to the system of constraints of* `ph`*.*

- int ppl_Polyhedron_add_recycled_congruences (ppl_Polyhedron_t ph, ppl_Congruence_-System_t cs)

  Adds the system of congruences `cs` *to the polyhedron* `ph`*.*

- int ppl_Polyhedron_refine_with_constraint (ppl_Polyhedron_t ph, ppl_const_Constraint_t c)

Refines `ph` *using constraint* `c`*.*

- int ppl_Polyhedron_refine_with_congruence (ppl_Polyhedron_t ph, ppl_const_Congruence_-t c)

  Refines `ph` *using congruence* `c`*.*

- int ppl_Polyhedron_refine_with_constraints (ppl_Polyhedron_t ph, ppl_const_Constraint_-System_t cs)

  Refines `ph` *using the constraints in* `cs`*.*

- int ppl_Polyhedron_refine_with_congruences (ppl_Polyhedron_t ph, ppl_const_Congruence_-System_t cs)

  Refines `ph` *using the congruences in* `cs`*.*

- int ppl_Polyhedron_intersection_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Intersects `x` *with polyhedron* `y` *and assigns the result to* `x`*.*

- int ppl_Polyhedron_upper_bound_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Assigns to `x` *an upper bound of* `x` *and* `y`*.*

- int ppl_Polyhedron_difference_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Same as ppl_Polyhedron_poly_difference_assign(x, y).

- int ppl_Polyhedron_simplify_using_context_assign (ppl_Polyhedron_t x, ppl_const_-Polyhedron_t y)

  Assigns to `x` *the meet-preserving simplification of* `x` *with respect to context* `y`*. Returns a positive integer if* `x` *and* `y` *have a nonempty intersection; returns* `0` *if they are disjoint.*

- int ppl_Polyhedron_time_elapse_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Assigns to `x` *the time-elapse between the polyhedra* `x` *and* `y`*.*

- int ppl_Polyhedron_topological_closure_assign (ppl_Polyhedron_t ph)

  Assigns to `ph` *its topological closure.*

- int ppl_Polyhedron_unconstrain_space_dimension (ppl_Polyhedron_t ph, ppl_dimension_type var)

  Modifies `ph` *by unconstraining the space dimension* `var`*.*

- int ppl_Polyhedron_unconstrain_space_dimensions (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)

  Modifies `ph` *by unconstraining the space dimensions that are specified in the first* `n` *positions of the array* `ds`*. The presence of duplicates in* `ds` *is a waste but an innocuous one.*

- int ppl_Polyhedron_affine_image (ppl_Polyhedron_t ph, ppl_dimension_type var, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)

  Transforms the polyhedron `ph`*, assigning an affine expression to the specified variable.*

- int ppl_Polyhedron_affine_preimage (ppl_Polyhedron_t ph, ppl_dimension_type var, ppl_const_-Linear_Expression_t le, ppl_const_Coefficient_t d)

  Transforms the polyhedron `ph`*, substituting an affine expression to the specified variable.*

- int ppl_Polyhedron_bounded_affine_image (ppl_Polyhedron_t ph, ppl_dimension_type var, ppl_-const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

  Assigns to `ph` *the image of* `ph` *with respect to the generalized affine transfer relation* $\frac{\mathrm{lb}}{\mathrm{d}} \leq \mathrm{var}' \leq \frac{\mathrm{ub}}{\mathrm{d}}$*.*

- int ppl_Polyhedron_bounded_affine_preimage (ppl_Polyhedron_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)

  Assigns to `ph` *the preimage of* `ph` *with respect to the generalized affine transfer relation* $\frac{\mathrm{lb}}{\mathrm{d}} \leq \mathrm{var}' \leq \frac{\mathrm{ub}}{\mathrm{d}}$.

- int ppl_Polyhedron_generalized_affine_image (ppl_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

  Assigns to `ph` *the image of* `ph` *with respect to the generalized affine transfer relation* $\mathrm{var}' \bowtie \frac{\mathrm{le}}{\mathrm{d}}$, *where* $\bowtie$ *is the relation symbol encoded by* `relsym`.

- int ppl_Polyhedron_generalized_affine_preimage (ppl_Polyhedron_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)

  Assigns to `ph` *the preimage of* `ph` *with respect to the generalized affine transfer relation* $\mathrm{var}' \bowtie \frac{\mathrm{le}}{\mathrm{d}}$, *where* $\bowtie$ *is the relation symbol encoded by* `relsym`.

- int ppl_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

  Assigns to `ph` *the image of* `ph` *with respect to the generalized affine transfer relation* $\mathrm{lhs}' \bowtie \mathrm{rhs}$, *where* $\bowtie$ *is the relation symbol encoded by* `relsym`.

- int ppl_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Polyhedron_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

  Assigns to `ph` *the preimage of* `ph` *with respect to the generalized affine transfer relation* $\mathrm{lhs}' \bowtie \mathrm{rhs}$, *where* $\bowtie$ *is the relation symbol encoded by* `relsym`.

Functions that May Modify the Dimension of the Vector Space

- int ppl_Polyhedron_concatenate_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Seeing a polyhedron as a set of tuples (its points), assigns to `x` *all the tuples that can be obtained by concatenating, in the order given, a tuple of* `x` *with a tuple of* `y`.

- int ppl_Polyhedron_add_space_dimensions_and_embed (ppl_Polyhedron_t ph, ppl_dimension_type d)

  Adds `d` *new dimensions to the space enclosing the polyhedron* `ph` *and to* `ph` *itself.*

- int ppl_Polyhedron_add_space_dimensions_and_project (ppl_Polyhedron_t ph, ppl_dimension_type d)

  Adds `d` *new dimensions to the space enclosing the polyhedron* `ph`.

- int ppl_Polyhedron_remove_space_dimensions (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n)

  Removes from the vector space enclosing `ph` *the space dimensions that are specified in first* `n` *positions of the array* `ds`. *The presence of duplicates in* `ds` *is a waste but an innocuous one.*

- int ppl_Polyhedron_remove_higher_space_dimensions (ppl_Polyhedron_t ph, ppl_dimension_type d)

  Removes the higher dimensions from the vector space enclosing `ph` *so that, upon successful return, the new space dimension is* `d`.

- int ppl_Polyhedron_map_space_dimensions (ppl_Polyhedron_t ph, ppl_dimension_type maps[ ], size_t n)

Remaps the dimensions of the vector space according to a partial function. This function is specified by means of the `maps` *array, which has* `n` *entries.*

- int ppl_Polyhedron_expand_space_dimension (ppl_Polyhedron_t ph, ppl_dimension_type d, ppl_dimension_type m)

  Expands the `d`*-th dimension of the vector space enclosing* `ph` *to* `m` *new space dimensions.*

- int ppl_Polyhedron_fold_space_dimensions (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)

  Modifies `ph` *by folding the space dimensions contained in the first* `n` *positions of the array* `ds` *into dimension* `d`*. The presence of duplicates in* `ds` *is a waste but an innocuous one.*

Input/Output Functions

- int ppl_io_print_Polyhedron (ppl_const_Polyhedron_t x)

  Prints `x` *to* `stdout`*.*

- int ppl_io_fprint_Polyhedron (FILE ∗stream, ppl_const_Polyhedron_t x)

  Prints `x` *to the given output* `stream`*.*

- int ppl_io_asprint_Polyhedron (char ∗∗strp, ppl_const_Polyhedron_t x)

  Prints `x` *to a malloc-allocated string, a pointer to which is returned via* `strp`*.*

- int ppl_Polyhedron_ascii_dump (ppl_const_Polyhedron_t x, FILE ∗stream)

  Dumps an ascii representation of `x` *on* `stream`*.*

- int ppl_Polyhedron_ascii_load (ppl_Polyhedron_t x, FILE ∗stream)

  Loads an ascii representation of `x` *from* `stream`*.*

Ad Hoc Functions for (C or NNC) Polyhedra

The functions listed here below, being specific of the polyhedron domains, do not have a correspondence in other semantic geometric descriptions.

- int ppl_new_C_Polyhedron_from_Generator_System (ppl_Polyhedron_t ∗pph, ppl_const_Generator_System_t gs)

  Builds a new C polyhedron from the system of generators `gs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_C_Polyhedron_recycle_Generator_System (ppl_Polyhedron_t ∗pph, ppl_Generator_System_t gs)

  Builds a new C polyhedron recycling the system of generators `gs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_from_Generator_System (ppl_Polyhedron_t ∗pph, ppl_const_Generator_System_t gs)

  Builds a new NNC polyhedron from the system of generators `gs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_new_NNC_Polyhedron_recycle_Generator_System (ppl_Polyhedron_t ∗pph, ppl_Generator_System_t gs)

  Builds a new NNC polyhedron recycling the system of generators `gs` *and writes a handle for the newly created polyhedron at address* `pph`*.*

- int ppl_Polyhedron_get_generators (ppl_const_Polyhedron_t ph, ppl_const_Generator_System_t *pgs)

  Writes a const handle to the generator system defining the polyhedron `ph` *at address* `pgs`.

- int ppl_Polyhedron_get_minimized_generators (ppl_const_Polyhedron_t ph, ppl_const_Generator_System_t *pgs)

  Writes a const handle to the minimized generator system defining the polyhedron `ph` *at address* `pgs`.

- int ppl_Polyhedron_add_generator (ppl_Polyhedron_t ph, ppl_const_Generator_t g)

  Adds a copy of the generator `g` *to the system of generators of* `ph`.

- int ppl_Polyhedron_add_generators (ppl_Polyhedron_t ph, ppl_const_Generator_System_t gs)

  Adds a copy of the system of generators `gs` *to the system of generators of* `ph`.

- int ppl_Polyhedron_add_recycled_generators (ppl_Polyhedron_t ph, ppl_Generator_System_t gs)

  Adds the system of generators `gs` *to the system of generators of* `ph`.

- int ppl_Polyhedron_poly_hull_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Assigns to `x` *the poly-hull of* `x` *and* `y`.

- int ppl_Polyhedron_poly_difference_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  Assigns to `x` *the poly-difference of* `x` *and* `y`.

- int wrap_assign (ppl_Polyhedron_t ph, ppl_dimension_type ds[ ], size_t n, ppl_enum_Bounded_Integer_Type_Width w, ppl_enum_Bounded_Integer_Type_Representation r, ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)

  Assigns to `ph` *the polyhedron obtained from* `ph` *by "wrapping" the vector space defined by the first* `n` *space dimensions in* `ds[]`.

- int ppl_Polyhedron_BHRZ03_widening_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_H79_widening_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_BHRZ03_widening_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y`.

- int ppl_Polyhedron_H79_widening_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y`.

- int ppl_Polyhedron_limited_BHRZ03_extrapolation_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_limited_H79_extrapolation_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_limited_BHRZ03_extrapolation_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*.*

- int ppl_Polyhedron_limited_H79_extrapolation_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*.*

- int ppl_Polyhedron_bounded_BHRZ03_extrapolation_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*, further intersected with all the constraints of the form* $\pm v \leq r$ *and* $\pm v < r$*, with* $r \in \mathbb{Q}$*, that are satisfied by all the points of* `x`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_bounded_H79_extrapolation_assign_with_tokens (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs, unsigned *tp)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*, further intersected with all the constraints of the form* $\pm v \leq r$ *and* $\pm v < r$*, with* $r \in \mathbb{Q}$*, that are satisfied by all the points of* `x`*. If* `tp` *is not the null pointer, the widening with tokens delay technique is applied with* `*tp` *available tokens.*

- int ppl_Polyhedron_bounded_BHRZ03_extrapolation_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the BHRZ03-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*, further intersected with all the constraints of the form* $\pm v \leq r$ *and* $\pm v < r$*, with* $r \in \mathbb{Q}$*, that are satisfied by all the points of* `x`*.*

- int ppl_Polyhedron_bounded_H79_extrapolation_assign (ppl_Polyhedron_t x, ppl_const_Polyhedron_t y, ppl_const_Constraint_System_t cs)

  If the polyhedron `y` *is contained in (or equal to) the polyhedron* `x`*, assigns to* `x` *the H79-widening of* `x` *and* `y` *intersected with the constraints in* `cs` *that are satisfied by all the points of* `x`*, further intersected with all the constraints of the form* $\pm v \leq r$ *and* $\pm v < r$*, with* $r \in \mathbb{Q}$*, that are satisfied by all the points of* `x`*.*

10.156.1 Detailed Description

Types and functions for the domains of C and NNC convex polyhedra. Types and functions for ppl_Polyhedron_tag.

The types and functions for convex polyhedra provide a single interface for accessing both topologically closed (C) and not necessarily closed (NNC) convex polyhedra. The distinction between C and NNC polyhedra need only be explicitly stated when *creating* or *assigning* a polyhedron object, by means of one of the functions `ppl_new_*` and `ppl_assign_*`.

Having a single datatype does not mean that C and NNC polyhedra can be freely interchanged: as specified in the main manual, most library functions require their arguments to be topologically and/or space-dimension compatible.

10.156.2 Friends And Related Function Documentation

10.156.2.1 int ppl_all_affine_ranking_functions_MS_C_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.2 int ppl_all_affine_ranking_functions_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.3 int ppl_all_affine_ranking_functions_MS_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.4 int ppl_all_affine_ranking_functions_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.5 int ppl_all_affine_ranking_functions_PR_C_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.6 int ppl_all_affine_ranking_functions_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.7 int ppl_all_affine_ranking_functions_PR_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.8 int ppl_all_affine_ranking_functions_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.156.2.9 int ppl_assign_C_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t *dst*, ppl_const_Polyhedron_t *src*) `[related]`

Assigns a copy of the C polyhedron `src` to the C polyhedron `dst`.

10.156.2.10 int ppl_assign_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t *dst*, ppl_const_Polyhedron_t *src*) `[related]`

Assigns a copy of the NNC polyhedron `src` to the NNC polyhedron `dst`.

10.156.2.11 int ppl_delete_Polyhedron (ppl_const_Polyhedron_t *ph*) `[related]`

Invalidates the handle `ph`: this makes sure the corresponding resources will eventually be released.

10.156.2.12 int ppl_io_asprint_Polyhedron (char ** *strp*, ppl_const_Polyhedron_t *x*) `[related]`

Prints `x` to a malloc-allocated string, a pointer to which is returned via `strp`.

10.156.2.13 int ppl_io_fprint_Polyhedron (FILE * *stream*, ppl_const_Polyhedron_t *x*) `[related]`

Prints `x` to the given output `stream`.

10.156.2.14 int ppl_io_print_Polyhedron (ppl_const_Polyhedron_t *x*) `[related]`

Prints `x` to `stdout`.

10.156.2.15 int ppl_new_C_Polyhedron_from_BD_Shape_double (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_double_t *ph*) `[related]`

10.156.2.16 int ppl_new_C_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.156.2.17 int ppl_new_C_Polyhedron_from_BD_Shape_float (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.156.2.18 int ppl_new_C_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.156.2.19 int ppl_new_C_Polyhedron_from_BD_Shape_int16_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.156.2.20 int ppl_new_C_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.156.2.21 int ppl_new_C_Polyhedron_from_BD_Shape_int32_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.156.2.22 int ppl_new_C_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.156.2.23 int ppl_new_C_Polyhedron_from_BD_Shape_int64_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.156.2.24 int ppl_new_C_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.156.2.25 int ppl_new_C_Polyhedron_from_BD_Shape_int8_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.156.2.26 int ppl_new_C_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.156.2.27 int ppl_new_C_Polyhedron_from_BD_Shape_long_double (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.156.2.28 int ppl_new_C_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.156.2.29 int ppl_new_C_Polyhedron_from_BD_Shape_mpq_class (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.156.2.30 int ppl_new_C_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.156.2.31 int ppl_new_C_Polyhedron_from_BD_Shape_mpz_class (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.156.2.32 int ppl_new_C_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.156.2.33 int ppl_new_C_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

Builds a C polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

10.156.2.34 int ppl_new_C_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

Builds a C polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

Note

The complexity argument is ignored.

10.156.2.35 int ppl_new_C_Polyhedron_from_Congruence_System (ppl_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

Builds a new C polyhedron from the system of congruences `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

10.156.2.36 int ppl_new_C_Polyhedron_from_Constraint_System (ppl_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

Builds a new C polyhedron from the system of constraints `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

10.156.2.37 int ppl_new_C_Polyhedron_from_Double_Box (ppl_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.156.2.38 int ppl_new_C_Polyhedron_from_Double_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.156.2.39 int ppl_new_C_Polyhedron_from_Float_Box (ppl_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.156.2.40 int ppl_new_C_Polyhedron_from_Float_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.156.2.41 int ppl_new_C_Polyhedron_from_Generator_System (ppl_Polyhedron_t * *pph*, ppl_const_Generator_System_t *gs*) [related]

Builds a new C polyhedron from the system of generators `gs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `gs`.

10.156.2.42 int ppl_new_C_Polyhedron_from_Grid (ppl_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.156.2.43 int ppl_new_C_Polyhedron_from_Grid_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.156.2.44 int ppl_new_C_Polyhedron_from_Int16_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.156.2.45 int ppl_new_C_Polyhedron_from_Int16_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.156.2.46 int ppl_new_C_Polyhedron_from_Int32_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.156.2.47 int ppl_new_C_Polyhedron_from_Int32_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.156.2.48 int ppl_new_C_Polyhedron_from_Int64_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.156.2.49 int ppl_new_C_Polyhedron_from_Int64_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.156.2.50 int ppl_new_C_Polyhedron_from_Int8_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.156.2.51 int ppl_new_C_Polyhedron_from_Int8_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.156.2.52 int ppl_new_C_Polyhedron_from_Long_Double_Box (ppl_Polyhedron_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.156.2.53 int ppl_new_C_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.156.2.54 int ppl_new_C_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

Builds a C polyhedron that is a copy of the topological closure of the NNC polyhedron `ph`; writes a handle for the newly created polyhedron at address `pph`.

10.156.2.55 int ppl_new_C_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

Builds a C polyhedron that approximates NNC_Polyhedron ph, using an algorithm whose complexity does not exceed complexity; writes a handle for the newly created polyhedron at address pph.

Note

The complexity argument, which can take values PPL_COMPLEXITY_CLASS_POLYNOMIAL, PPL_COMPLEXITY_CLASS_SIMPLEX and PPL_COMPLEXITY_CLASS_ANY, is ignored since the exact constructor has polynomial complexity.

10.156.2.56 int ppl_new_C_Polyhedron_from_Octagonal_Shape_double (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.156.2.57 int ppl_new_C_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.156.2.58 int ppl_new_C_Polyhedron_from_Octagonal_Shape_float (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.156.2.59 int ppl_new_C_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.156.2.60 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.156.2.61 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int16_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.156.2.62 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.156.2.63 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int32_t_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.156.2.64 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.156.2.65 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int64_t_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.156.2.66 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.156.2.67 int ppl_new_C_Polyhedron_from_Octagonal_Shape_int8_t_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.156.2.68 int ppl_new_C_Polyhedron_from_Octagonal_Shape_long_double (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.156.2.69 int ppl_new_C_Polyhedron_from_Octagonal_Shape_long_double_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.156.2.70 int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.156.2.71 int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.156.2.72 int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.156.2.73 int ppl_new_C_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.156.2.74 int ppl_new_C_Polyhedron_from_Rational_Box (ppl_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.156.2.75 int ppl_new_C_Polyhedron_from_Rational_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.156.2.76 int ppl_new_C_Polyhedron_from_space_dimension (ppl_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

Builds a C polyhedron of dimension `d` and writes an handle to it at address `pph`. If `empty` is different from zero, the newly created polyhedron will be empty; otherwise, it will be a universe polyhedron.

10.156.2.77 int ppl_new_C_Polyhedron_from_Uint16_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.156.2.78 int ppl_new_C_Polyhedron_from_Uint16_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.156.2.79 int ppl_new_C_Polyhedron_from_Uint32_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.156.2.80 int ppl_new_C_Polyhedron_from_Uint32_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.156.2.81 int ppl_new_C_Polyhedron_from_Uint64_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.156.2.82 int ppl_new_C_Polyhedron_from_Uint64_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.156.2.83 int ppl_new_C_Polyhedron_from_Uint8_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.156.2.84 int ppl_new_C_Polyhedron_from_Uint8_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.156.2.85 int ppl_new_C_Polyhedron_from_Z_Box (ppl_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.156.2.86 int ppl_new_C_Polyhedron_from_Z_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.156.2.87 int ppl_new_C_Polyhedron_recycle_Congruence_System (ppl_Polyhedron_t * *pph*, ppl_Congruence_System_t *cs*) [related]

Builds a new C polyhedron recycling the system of congruences `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

Warning

This function modifies the congruence system referenced by `cs`: upon return, no assumption can be made on its value.

10.156.2.88 int ppl_new_C_Polyhedron_recycle_Constraint_System (ppl_Polyhedron_t * *pph*, ppl_Constraint_System_t *cs*) [related]

Builds a new C polyhedron recycling the system of constraints cs and writes a handle for the newly created polyhedron at address pph.

The new polyhedron will inherit the space dimension of cs.

Warning

This function modifies the constraint system referenced by cs: upon return, no assumption can be made on its value.

10.156.2.89 int ppl_new_C_Polyhedron_recycle_Generator_System (ppl_Polyhedron_t * *pph*, ppl_Generator_System_t *gs*) [related]

Builds a new C polyhedron recycling the system of generators gs and writes a handle for the newly created polyhedron at address pph.

The new polyhedron will inherit the space dimension of gs.

Warning

This function modifies the generator system referenced by gs: upon return, no assumption can be made on its value.

10.156.2.90 int ppl_new_NNC_Polyhedron_from_BD_Shape_double (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.156.2.91 int ppl_new_NNC_Polyhedron_from_BD_Shape_double_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.156.2.92 int ppl_new_NNC_Polyhedron_from_BD_Shape_float (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.156.2.93 int ppl_new_NNC_Polyhedron_from_BD_Shape_float_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.156.2.94 int ppl_new_NNC_Polyhedron_from_BD_Shape_int16_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.156.2.95 int ppl_new_NNC_Polyhedron_from_BD_Shape_int16_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.156.2.96 int ppl_new_NNC_Polyhedron_from_BD_Shape_int32_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.156.2.97 int ppl_new_NNC_Polyhedron_from_BD_Shape_int32_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.156.2.98 int ppl_new_NNC_Polyhedron_from_BD_Shape_int64_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.156.2.99 int ppl_new_NNC_Polyhedron_from_BD_Shape_int64_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.156.2.100 int ppl_new_NNC_Polyhedron_from_BD_Shape_int8_t (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.156.2.101 int ppl_new_NNC_Polyhedron_from_BD_Shape_int8_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.156.2.102 int ppl_new_NNC_Polyhedron_from_BD_Shape_long_double (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.156.2.103 int ppl_new_NNC_Polyhedron_from_BD_Shape_long_double_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.156.2.104 int ppl_new_NNC_Polyhedron_from_BD_Shape_mpq_class (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.156.2.105 int ppl_new_NNC_Polyhedron_from_BD_Shape_mpq_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.156.2.106 int ppl_new_NNC_Polyhedron_from_BD_Shape_mpz_class (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.156.2.107 int ppl_new_NNC_Polyhedron_from_BD_Shape_mpz_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.156.2.108 int ppl_new_NNC_Polyhedron_from_C_Polyhedron (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

Builds an NNC polyhedron that is a copy of the C polyhedron `ph`; writes a handle for the newly created polyhedron at address `pph`.

10.156.2.109 int ppl_new_NNC_Polyhedron_from_C_Polyhedron_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

Builds an NNC polyhedron that approximates C_Polyhedron `ph`, using an algorithm whose complexity does not exceed `complexity`; writes a handle for the newly created polyhedron at address `pph`.

Note

The complexity argument, which can take values `PPL_COMPLEXITY_CLASS_POLYNOMIAL`, `PPL_COMPLEXITY_CLASS_SIMPLEX` and `PPL_COMPLEXITY_CLASS_ANY`, is ignored since the exact constructor has polynomial complexity.

10.156.2.110 int ppl_new_NNC_Polyhedron_from_Congruence_System (ppl_Polyhedron_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

Builds a new NNC polyhedron from the system of congruences `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

10.156.2.111 int ppl_new_NNC_Polyhedron_from_Constraint_System (ppl_Polyhedron_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

Builds a new NNC polyhedron from the system of constraints `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

10.156.2.112 int ppl_new_NNC_Polyhedron_from_Double_Box (ppl_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.156.2.113 int ppl_new_NNC_Polyhedron_from_Double_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.156.2.114 int ppl_new_NNC_Polyhedron_from_Float_Box (ppl_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.156.2.115 int ppl_new_NNC_Polyhedron_from_Float_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.156.2.116 int ppl_new_NNC_Polyhedron_from_Generator_System (ppl_Polyhedron_t * *pph*, ppl_const_Generator_System_t *gs*) [related]

Builds a new NNC polyhedron from the system of generators `gs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `gs`.

10.156.2.117 int ppl_new_NNC_Polyhedron_from_Grid (ppl_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.156.2.118 int ppl_new_NNC_Polyhedron_from_Grid_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.156.2.119 int ppl_new_NNC_Polyhedron_from_Int16_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.156.2.120 int ppl_new_NNC_Polyhedron_from_Int16_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.156.2.121 int ppl_new_NNC_Polyhedron_from_Int32_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.156.2.122 int ppl_new_NNC_Polyhedron_from_Int32_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.156.2.123 int ppl_new_NNC_Polyhedron_from_Int64_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.156.2.124 int ppl_new_NNC_Polyhedron_from_Int64_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.156.2.125 int ppl_new_NNC_Polyhedron_from_Int8_Box (ppl_Polyhedron_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.156.2.126 int ppl_new_NNC_Polyhedron_from_Int8_Box_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.156.2.127 int ppl_new_NNC_Polyhedron_from_Long_Double_Box (ppl_Polyhedron_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.156.2.128 int ppl_new_NNC_Polyhedron_from_Long_Double_Box_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.156.2.129 int ppl_new_NNC_Polyhedron_from_NNC_Polyhedron (ppl_Polyhedron_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

Builds an NNC polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

10.156.2.130 int ppl_new_NNC_Polyhedron_from_NNC_Polyhedron_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

Builds an NNC polyhedron that is a copy of `ph`; writes a handle for the newly created polyhedron at address `pph`.

Note

The complexity argument is ignored.

10.156.2.131 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_double (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.156.2.132 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_double_with_complexity (ppl_Polyhedron_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.156.2.133 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_float (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.156.2.134 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_float_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.156.2.135 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int16_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.156.2.136 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int16_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.156.2.137 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int32_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.156.2.138 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int32_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.156.2.139 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int64_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.156.2.140 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int64_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.156.2.141 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int8_t (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.156.2.142 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_int8_t_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.156.2.143 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_long_double (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.156.2.144 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_long_double_with_-complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.156.2.145 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpq_class (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.156.2.146 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.156.2.147 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpz_class (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.156.2.148 int ppl_new_NNC_Polyhedron_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.156.2.149 int ppl_new_NNC_Polyhedron_from_Rational_Box (ppl_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.156.2.150 int ppl_new_NNC_Polyhedron_from_Rational_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.156.2.151 int ppl_new_NNC_Polyhedron_from_space_dimension (ppl_Polyhedron_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

Builds an NNC polyhedron of dimension `d` and writes an handle to it at address `pph`. If `empty` is different from zero, the newly created polyhedron will be empty; otherwise, it will be a universe polyhedron.

10.156.2.152 int ppl_new_NNC_Polyhedron_from_Uint16_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.156.2.153 int ppl_new_NNC_Polyhedron_from_Uint16_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.156.2.154 int ppl_new_NNC_Polyhedron_from_Uint32_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.156.2.155 int ppl_new_NNC_Polyhedron_from_Uint32_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.156.2.156 int ppl_new_NNC_Polyhedron_from_Uint64_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.156.2.157 int ppl_new_NNC_Polyhedron_from_Uint64_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.156.2.158 int ppl_new_NNC_Polyhedron_from_Uint8_Box (ppl_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.156.2.159 int ppl_new_NNC_Polyhedron_from_Uint8_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.156.2.160 int ppl_new_NNC_Polyhedron_from_Z_Box (ppl_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.156.2.161 int ppl_new_NNC_Polyhedron_from_Z_Box_with_complexity (ppl_Polyhedron_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.156.2.162 int ppl_new_NNC_Polyhedron_recycle_Congruence_System (ppl_Polyhedron_t * *pph*, ppl_Congruence_System_t *cs*) [related]

Builds a new NNC polyhedron recycling the system of congruences `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

Warning

This function modifies the congruence system referenced by `cs`: upon return, no assumption can be made on its value.

10.156.2.163 int ppl_new_NNC_Polyhedron_recycle_Constraint_System (ppl_Polyhedron_t * *pph*, ppl_Constraint_System_t *cs*) [related]

Builds a new NNC polyhedron recycling the system of constraints `cs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of `cs`.

Warning

This function modifies the constraint system referenced by `cs`: upon return, no assumption can be made on its value.

10.156.2.164 int ppl_new_NNC_Polyhedron_recycle_Generator_System (ppl_Polyhedron_t * *pph*, ppl_Generator_System_t *gs*) [related]

Builds a new NNC polyhedron recycling the system of generators `gs` and writes a handle for the newly created polyhedron at address `pph`.

The new polyhedron will inherit the space dimension of gs.

Warning

This function modifies the generator system referenced by gs: upon return, no assumption can be made on its value.

10.156.2.165 int ppl_one_affine_ranking_function_MS_C_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Generator_t *point*) [related]

10.156.2.166 int ppl_one_affine_ranking_function_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Generator_t *point*) [related]

10.156.2.167 int ppl_one_affine_ranking_function_MS_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Generator_t *point*) [related]

10.156.2.168 int ppl_one_affine_ranking_function_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Generator_t *point*) [related]

10.156.2.169 int ppl_one_affine_ranking_function_PR_C_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Generator_t *point*) [related]

10.156.2.170 int ppl_one_affine_ranking_function_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Generator_t *point*) [related]

10.156.2.171 int ppl_one_affine_ranking_function_PR_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*, ppl_Generator_t *point*) [related]

10.156.2.172 int ppl_one_affine_ranking_function_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*, ppl_Generator_t *point*) [related]

10.156.2.173 int ppl_Polyhedron_add_congruence (ppl_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

Adds a copy of the congruence `c` to polyhedron of `ph`.

10.156.2.174 int ppl_Polyhedron_add_congruences (ppl_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

Adds a copy of the system of congruences `cs` to the polyhedron `ph`.

10.156.2.175 int ppl_Polyhedron_add_constraint (ppl_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

Adds a copy of the constraint `c` to the system of constraints of `ph`.

10.156.2.176 int ppl_Polyhedron_add_constraints (ppl_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

Adds a copy of the system of constraints `cs` to the system of constraints of `ph`.

10.156.2.177 int ppl_Polyhedron_add_generator (ppl_Polyhedron_t *ph*, ppl_const_Generator_t *g*) [related]

Adds a copy of the generator `g` to the system of generators of `ph`.

10.156.2.178 int ppl_Polyhedron_add_generators (ppl_Polyhedron_t *ph*, ppl_const_Generator_System_t *gs*) [related]

Adds a copy of the system of generators `gs` to the system of generators of `ph`.

10.156.2.179 int ppl_Polyhedron_add_recycled_congruences (ppl_Polyhedron_t *ph*, ppl_Congruence_System_t *cs*) [related]

Adds the system of congruences `cs` to the polyhedron `ph`.

Warning

This function modifies the congruence system referenced by `cs`: upon return, no assumption can be made on its value.

10.156.2.180 int ppl_Polyhedron_add_recycled_constraints (ppl_Polyhedron_t *ph*, ppl_Constraint_System_t *cs*) [related]

Adds the system of constraints `cs` to the system of constraints of `ph`.

Warning

This function modifies the constraint system referenced by `cs`: upon return, no assumption can be made on its value.

10.156.2.181 int ppl_Polyhedron_add_recycled_generators (ppl_Polyhedron_t *ph*, ppl_Generator_System_t *gs*) [related]

Adds the system of generators `gs` to the system of generators of `ph`.

Warning

This function modifies the generator system referenced by `gs`: upon return, no assumption can be made on its value.

10.156.2.182 int ppl_Polyhedron_add_space_dimensions_and_embed (ppl_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

Adds `d` new dimensions to the space enclosing the polyhedron `ph` and to `ph` itself.

10.156.2.183 int ppl_Polyhedron_add_space_dimensions_and_project (ppl_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

Adds `d` new dimensions to the space enclosing the polyhedron `ph`.

10.156.2.184 int ppl_Polyhedron_affine_dimension (ppl_const_Polyhedron_t *ph*, ppl_dimension_type * *m*) [related]

Writes to `m` the affine dimension of `ph` (not to be confused with the dimension of its enclosing vector space) or 0, if `ph` is empty.

10.156.2.185 int ppl_Polyhedron_affine_image (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

Transforms the polyhedron ph, assigning an affine expression to the specified variable.

Parameters

ph The polyhedron that is transformed;

var The variable to which the affine expression is assigned;

le The numerator of the affine expression;

d The denominator of the affine expression.

10.156.2.186 int ppl_Polyhedron_affine_preimage (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

Transforms the polyhedron ph, substituting an affine expression to the specified variable.

Parameters

ph The polyhedron that is transformed;

var The variable to which the affine expression is substituted;

le The numerator of the affine expression;

d The denominator of the affine expression.

10.156.2.187 int ppl_Polyhedron_ascii_dump (ppl_const_Polyhedron_t *x*, FILE * *stream*) [related]

Dumps an ascii representation of x on stream.

10.156.2.188 int ppl_Polyhedron_ascii_load (ppl_Polyhedron_t *x*, FILE * *stream*) [related]

Loads an ascii representation of x from stream.

10.156.2.189 int ppl_Polyhedron_BHRZ03_widening_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *BHRZ03-widening* of x and y.

10.156.2.190 int ppl_Polyhedron_BHRZ03_widening_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, unsigned ∗ *tp*) [related]

If the polyhedron `y` is contained in (or equal to) the polyhedron `x`, assigns to `x` the *BHRZ03-widening* of `x` and `y`. If `tp` is not the null pointer, the *widening with tokens* delay technique is applied with `*tp` available tokens.

10.156.2.191 int ppl_Polyhedron_bounded_affine_image (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

Assigns to `ph` the image of `ph` with respect to the *generalized affine transfer relation* $\frac{\mathrm{lb}}{\mathrm{d}} \leq \mathrm{var}' \leq \frac{\mathrm{ub}}{\mathrm{d}}$.

Parameters

ph The polyhedron that is transformed;

var The variable bounded by the generalized affine transfer relation;

lb The numerator of the lower bounding affine expression;

ub The numerator of the upper bounding affine expression;

d The (common) denominator of the lower and upper bounding affine expressions.

10.156.2.192 int ppl_Polyhedron_bounded_affine_preimage (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

Assigns to `ph` the preimage of `ph` with respect to the *generalized affine transfer relation* $\frac{\mathrm{lb}}{\mathrm{d}} \leq \mathrm{var}' \leq \frac{\mathrm{ub}}{\mathrm{d}}$.

Parameters

ph The polyhedron that is transformed;

var The variable bounded by the generalized affine transfer relation;

lb The numerator of the lower bounding affine expression;

ub The numerator of the upper bounding affine expression;

d The (common) denominator of the lower and upper bounding affine expressions.

10.156.2.193 int ppl_Polyhedron_bounded_BHRZ03_extrapolation_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*) [related]

If the polyhedron `y` is contained in (or equal to) the polyhedron `x`, assigns to `x` the *BHRZ03-widening* of `x` and `y` intersected with the constraints in `cs` that are satisfied by all the points of `x`, further intersected with all the constraints of the form $\pm v \leq r$ and $\pm v < r$, with $r \in \mathbb{Q}$, that are satisfied by all the points of `x`.

10.156.2.194 int ppl_Polyhedron_bounded_BHRZ03_extrapolation_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *BHRZ03-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x, further intersected with all the constraints of the form $\pm v \leq r$ and $\pm v < r$, with $r \in \mathbb{Q}$, that are satisfied by all the points of x. If tp is not the null pointer, the *widening with tokens* delay technique is applied with *tp available tokens.

10.156.2.195 int ppl_Polyhedron_bounded_H79_extrapolation_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x, further intersected with all the constraints of the form $\pm v \leq r$ and $\pm v < r$, with $r \in \mathbb{Q}$, that are satisfied by all the points of x.

10.156.2.196 int ppl_Polyhedron_bounded_H79_extrapolation_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x, further intersected with all the constraints of the form $\pm v \leq r$ and $\pm v < r$, with $r \in \mathbb{Q}$, that are satisfied by all the points of x. If tp is not the null pointer, the *widening with tokens* delay technique is applied with *tp available tokens.

10.156.2.197 int ppl_Polyhedron_bounds_from_above (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

Returns a positive integer if le is bounded from above in ph; returns 0 otherwise.

10.156.2.198 int ppl_Polyhedron_bounds_from_below (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

Returns a positive integer if le is bounded from below in ph; returns 0 otherwise.

10.156.2.199 int ppl_Polyhedron_concatenate_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Seeing a polyhedron as a set of tuples (its points), assigns to x all the tuples that can be obtained by concatenating, in the order given, a tuple of x with a tuple of y.

10.156.2.200 int ppl_Polyhedron_constrains (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

Returns a positive integer if `ph` constrains `var`; returns 0 if `ph` does not constrain `var`.

10.156.2.201 int ppl_Polyhedron_contains_integer_point (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if `ph` contains at least one integer point; returns 0 otherwise.

10.156.2.202 int ppl_Polyhedron_contains_Polyhedron (ppl_const_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Returns a positive integer if `x` contains or is equal to `y`; returns 0 if it does not.

10.156.2.203 int ppl_Polyhedron_difference_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Same as ppl_Polyhedron_poly_difference_assign(x, y).

10.156.2.204 int ppl_Polyhedron_drop_some_non_integer_points (ppl_Polyhedron_t *ph*, int *complexity*) [related]

10.156.2.205 int ppl_Polyhedron_drop_some_non_integer_points_2 (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.156.2.206 int ppl_Polyhedron_equals_Polyhedron (ppl_const_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Returns a positive integer if `x` and `y` are the same polyhedron; returns 0 if they are different.

Note that `x` and `y` may be topology- and/or dimension-incompatible polyhedra: in those cases, the value 0 is returned.

10.156.2.207 int ppl_Polyhedron_expand_space_dimension (ppl_Polyhedron_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

Expands the d-th dimension of the vector space enclosing ph to m new space dimensions.

10.156.2.208 int ppl_Polyhedron_external_memory_in_bytes (ppl_const_Polyhedron_t *ph*, size_t ∗ *sz*) [related]

Writes to sz a lower bound to the size in bytes of the memory managed by ph.

10.156.2.209 int ppl_Polyhedron_fold_space_dimensions (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

Modifies ph by *folding* the space dimensions contained in the first n positions of the array ds into dimension d. The presence of duplicates in ds is a waste but an innocuous one.

10.156.2.210 int ppl_Polyhedron_frequency (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.156.2.211 int ppl_Polyhedron_generalized_affine_image (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

Assigns to ph the image of ph with respect to the *generalized affine transfer relation* $\mathrm{var}' \bowtie \frac{\mathrm{le}}{\mathrm{d}}$, where $\bowtie$ is the relation symbol encoded by relsym.

Parameters

- ***ph*** The polyhedron that is transformed;
- ***var*** The left hand side variable of the generalized affine transfer relation;
- ***relsym*** The relation symbol;
- ***le*** The numerator of the right hand side affine expression;
- ***d*** The denominator of the right hand side affine expression.

10.156.2.212 int ppl_Polyhedron_generalized_affine_image_lhs_rhs (ppl_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

Assigns to ph the image of ph with respect to the *generalized affine transfer relation* $\mathrm{lhs}' \bowtie \mathrm{rhs}$, where $\bowtie$ is the relation symbol encoded by relsym.

Parameters

- ***ph*** The polyhedron that is transformed;

lhs The left hand side affine expression;

relsym The relation symbol;

rhs The right hand side affine expression.

10.156.2.213 int ppl_Polyhedron_generalized_affine_preimage (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) `[related]`

Assigns to `ph` the preimage of `ph` with respect to the *generalized affine transfer relation* $\mathrm{var}' \bowtie \frac{\mathrm{le}}{\mathrm{d}}$, where $\bowtie$ is the relation symbol encoded by `relsym`.

Parameters

ph The polyhedron that is transformed;

var The left hand side variable of the generalized affine transfer relation;

relsym The relation symbol;

le The numerator of the right hand side affine expression;

d The denominator of the right hand side affine expression.

10.156.2.214 int ppl_Polyhedron_generalized_affine_preimage_lhs_rhs (ppl_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) `[related]`

Assigns to `ph` the preimage of `ph` with respect to the *generalized affine transfer relation* $\mathrm{lhs}' \bowtie \mathrm{rhs}$, where $\bowtie$ is the relation symbol encoded by `relsym`.

Parameters

ph The polyhedron that is transformed;

lhs The left hand side affine expression;

relsym The relation symbol;

rhs The right hand side affine expression.

10.156.2.215 int ppl_Polyhedron_get_congruences (ppl_const_Polyhedron_t *ph*, ppl_const_Congruence_System_t $*$ *pcs*) `[related]`

Writes at address `pcs` a const handle to a system of congruences approximating the polyhedron `ph`.

10.156.2.216 int ppl_Polyhedron_get_constraints (ppl_const_Polyhedron_t *ph*, ppl_const_Constraint_System_t $*$ *pcs*) `[related]`

Writes a const handle to the constraint system defining the polyhedron `ph` at address `pcs`.

10.156.2.217 int ppl_Polyhedron_get_generators (ppl_const_Polyhedron_t *ph*, ppl_const_Generator_System_t * *pgs*) [related]

Writes a const handle to the generator system defining the polyhedron ph at address pgs.

10.156.2.218 int ppl_Polyhedron_get_minimized_congruences (ppl_const_Polyhedron_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

Writes at address pcs a const handle to a system of minimized congruences approximating the polyhedron ph.

10.156.2.219 int ppl_Polyhedron_get_minimized_constraints (ppl_const_Polyhedron_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

Writes a const handle to the minimized constraint system defining the polyhedron ph at address pcs.

10.156.2.220 int ppl_Polyhedron_get_minimized_generators (ppl_const_Polyhedron_t *ph*, ppl_const_Generator_System_t * *pgs*) [related]

Writes a const handle to the minimized generator system defining the polyhedron ph at address pgs.

10.156.2.221 int ppl_Polyhedron_H79_widening_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y.

10.156.2.222 int ppl_Polyhedron_H79_widening_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, unsigned * *tp*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y. If tp is not the null pointer, the *widening with tokens* delay technique is applied with *tp available tokens.

10.156.2.223 int ppl_Polyhedron_intersection_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Intersects x with polyhedron y and assigns the result to x.

10.156.2.224 int ppl_Polyhedron_is_bounded (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if ph is bounded; returns 0 if ph is unbounded.

10.156.2.225 int ppl_Polyhedron_is_discrete (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if ph is a discrete set; returns 0 if ph is not a discrete set.

10.156.2.226 int ppl_Polyhedron_is_disjoint_from_Polyhedron (ppl_const_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Returns a positive integer if x and y are disjoint; returns 0 if they are not.

10.156.2.227 int ppl_Polyhedron_is_empty (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if ph is empty; returns 0 if ph is not empty.

10.156.2.228 int ppl_Polyhedron_is_topologically_closed (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if ph is topologically closed; returns 0 if ph is not topologically closed.

10.156.2.229 int ppl_Polyhedron_is_universe (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if ph is a universe polyhedron; returns 0 if it is not.

10.156.2.230 int ppl_Polyhedron_limited_BHRZ03_extrapolation_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *BHRZ03-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x.

10.156.2.231 int ppl_Polyhedron_limited_BHRZ03_extrapolation_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *BHRZ03-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x. If tp is not the null pointer, the *widening with tokens* delay technique is applied with *tp available tokens.

10.156.2.232 int ppl_Polyhedron_limited_H79_extrapolation_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x.

10.156.2.233 int ppl_Polyhedron_limited_H79_extrapolation_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

If the polyhedron y is contained in (or equal to) the polyhedron x, assigns to x the *H79-widening* of x and y intersected with the constraints in cs that are satisfied by all the points of x. If tp is not the null pointer, the *widening with tokens* delay technique is applied with *tp available tokens.

10.156.2.234 int ppl_Polyhedron_linear_partition (ppl_const_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, ppl_Polyhedron_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.156.2.235 int ppl_Polyhedron_map_space_dimensions (ppl_Polyhedron_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

Remaps the dimensions of the vector space according to a *partial function*. This function is specified by means of the maps array, which has n entries.

The partial function is defined on dimension i if i < n and maps[i] != ppl_not_a_dimension; otherwise it is undefined on dimension i. If the function is defined on dimension i, then dimension i is mapped onto dimension maps[i].

The result is undefined if maps does not encode a partial function with the properties described in the *specification of the mapping operator*.

10.156.2.236 int ppl_Polyhedron_maximize (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *sup_n*, ppl_Coefficient_t *sup_d*, int * *pmaximum*) [related]

The same as ppl_Polyhedron_maximize_with_point, but without the output argument for the location where the supremum value is reached.

10.156.2.237 int ppl_Polyhedron_maximize_with_point (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *sup_n*, ppl_Coefficient_t *sup_d*, int * *pmaximum*, ppl_Generator_t *point*) [related]

Returns a positive integer if ph is not empty and le is bounded from above in ph, in which case the supremum value and a point where le reaches it are computed.

Parameters

ph The polyhedron constraining le;

le The linear expression to be maximized subject to ph;

sup_n Will be assigned the numerator of the supremum value;

sup_d Will be assigned the denominator of the supremum value;

pmaximum Will store 1 in this location if the supremum is also the maximum, will store 0 otherwise;

point Will be assigned the point or closure point where le reaches the extremum value.

If ph is empty or le is not bounded from above, 0 will be returned and sup_n, sup_d, *pmaximum and point will be left untouched.

10.156.2.238 int ppl_Polyhedron_minimize (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_-Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.156.2.239 int ppl_Polyhedron_minimize_with_point (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *inf_n*, ppl_Coefficient_t *inf_d*, int * *pminimum*) [related]

The same as ppl_Polyhedron_minimize_with_point, but without the output argument for the location where the infimum value is reached.

10.156.2.240 int ppl_Polyhedron_minimize_with_point (ppl_const_Polyhedron_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *inf_n*, ppl_Coefficient_t *inf_d*, int * *pminimum*, ppl_Generator_t *point*) [related]

Returns a positive integer if ph is not empty and le is bounded from below in ph, in which case the infimum value and a point where le reaches it are computed.

Parameters

ph The polyhedron constraining le;

le The linear expression to be minimized subject to ph;

inf_n Will be assigned the numerator of the infimum value;

inf_d Will be assigned the denominator of the infimum value;

pminimum Will store 1 in this location if the infimum is also the minimum, will store 0 otherwise;

point Will be assigned the point or closure point where `le` reaches the extremum value.

If `ph` is empty or `le` is not bounded from below, 0 will be returned and `sup_n`, `sup_d`, `*pmaximum` and `point` will be left untouched.

10.156.2.241 int ppl_Polyhedron_OK (ppl_const_Polyhedron_t *ph*) [related]

Returns a positive integer if `ph` is well formed, i.e., if it satisfies all its implementation invariants; returns 0 and perhaps makes some noise if `ph` is broken. Useful for debugging purposes.

10.156.2.242 int ppl_Polyhedron_poly_difference_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Assigns to `x` the *poly-difference* of `x` and `y`.

10.156.2.243 int ppl_Polyhedron_poly_hull_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Assigns to `x` the poly-hull of `x` and `y`.

10.156.2.244 int ppl_Polyhedron_poly_hull_assign_if_exact (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

10.156.2.245 int ppl_Polyhedron_refine_with_congruence (ppl_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

Refines `ph` using congruence `c`.

10.156.2.246 int ppl_Polyhedron_refine_with_congruences (ppl_Polyhedron_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

Refines `ph` using the congruences in `cs`.

10.156.2.247 int ppl_Polyhedron_refine_with_constraint (ppl_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

Refines `ph` using constraint `c`.

10.156.2.248 int ppl_Polyhedron_refine_with_constraints (ppl_Polyhedron_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

Refines ph using the constraints in cs.

10.156.2.249 int ppl_Polyhedron_relation_with_Congruence (ppl_const_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

10.156.2.250 int ppl_Polyhedron_relation_with_Constraint (ppl_const_Polyhedron_t *ph*, ppl_const_Constraint_t *c*) [related]

Checks the relation between the polyhedron ph and the constraint c.

If successful, returns a non-negative integer that is obtained as the bitwise or of the bits (chosen among PPL_POLY_CON_RELATION_IS_DISJOINT PPL_POLY_CON_RELATION_STRICTLY_INTERSECTS, PPL_POLY_CON_RELATION_IS_INCLUDED, and PPL_POLY_CON_RELATION_SATURATES) that describe the relation between ph and c.

10.156.2.251 int ppl_Polyhedron_relation_with_Generator (ppl_const_Polyhedron_t *ph*, ppl_const_Generator_t *g*) [related]

Checks the relation between the polyhedron ph and the generator g.

If successful, returns a non-negative integer that is obtained as the bitwise or of the bits (only PPL_POLY_GEN_RELATION_SUBSUMES, at present) that describe the relation between ph and g.

10.156.2.252 int ppl_Polyhedron_remove_higher_space_dimensions (ppl_Polyhedron_t *ph*, ppl_dimension_type *d*) [related]

Removes the higher dimensions from the vector space enclosing ph so that, upon successful return, the new space dimension is d.

10.156.2.253 int ppl_Polyhedron_remove_space_dimensions (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

Removes from the vector space enclosing ph the space dimensions that are specified in first n positions of the array ds. The presence of duplicates in ds is a waste but an innocuous one.

10.156.2.254 int ppl_Polyhedron_simplify_using_context_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Assigns to x the *meet-preserving simplification* of x with respect to context y. Returns a positive integer if x and y have a nonempty intersection; returns 0 if they are disjoint.

10.156.2.255 int ppl_Polyhedron_space_dimension (ppl_const_Polyhedron_t *ph*, ppl_dimension_type * *m*) [related]

Writes to m the dimension of the vector space enclosing ph.

10.156.2.256 int ppl_Polyhedron_strictly_contains_Polyhedron (ppl_const_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Returns a positive integer if x strictly contains y; returns 0 if it does not.

10.156.2.257 int ppl_Polyhedron_time_elapse_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Assigns to x the *time-elapse* between the polyhedra x and y.

10.156.2.258 int ppl_Polyhedron_topological_closure_assign (ppl_Polyhedron_t *ph*) [related]

Assigns to ph its topological closure.

10.156.2.259 int ppl_Polyhedron_total_memory_in_bytes (ppl_const_Polyhedron_t *ph*, size_t * *sz*) [related]

Writes to sz a lower bound to the size in bytes of the memory managed by ph.

10.156.2.260 int ppl_Polyhedron_unconstrain_space_dimension (ppl_Polyhedron_t *ph*, ppl_dimension_type *var*) [related]

Modifies ph by *unconstraining* the space dimension var.

10.156.2.261 int ppl_Polyhedron_unconstrain_space_dimensions (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

Modifies ph by *unconstraining* the space dimensions that are specified in the first n positions of the array ds. The presence of duplicates in ds is a waste but an innocuous one.

10.156.2.262 int ppl_Polyhedron_upper_bound_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

Assigns to x an upper bound of x and y.

For the domain of polyhedra, this is the same as ppl_Polyhedron_poly_hull_assign(x, y).

10.156.2.263 int ppl_Polyhedron_upper_bound_assign_if_exact (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

10.156.2.264 int ppl_Polyhedron_widening_assign (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*) [related]

10.156.2.265 int ppl_Polyhedron_widening_assign_with_tokens (ppl_Polyhedron_t *x*, ppl_const_Polyhedron_t *y*, unsigned ∗ *tp*) [related]

10.156.2.266 int ppl_Polyhedron_wrap_assign (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_-Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.156.2.267 int ppl_termination_test_MS_C_Polyhedron (ppl_const_Polyhedron_t *pset*) [related]

10.156.2.268 int ppl_termination_test_MS_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*) [related]

10.156.2.269 int ppl_termination_test_MS_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*) [related]

10.156.2.270 int ppl_termination_test_MS_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*) [related]

10.156.2.271 int ppl_termination_test_PR_C_Polyhedron (ppl_const_Polyhedron_t *pset*) [related]

10.156.2.272 int ppl_termination_test_PR_C_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*) [related]

10.156.2.273 int ppl_termination_test_PR_NNC_Polyhedron (ppl_const_Polyhedron_t *pset*) [related]

10.156.2.274 int ppl_termination_test_PR_NNC_Polyhedron_2 (ppl_const_Polyhedron_t *pset_before*, ppl_const_Polyhedron_t *pset_after*) [related]

10.156.2.275 int wrap_assign (ppl_Polyhedron_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_enum_Bounded_Integer_Type_Width *w*, ppl_enum_Bounded_Integer_-Type_Representation *r*, ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

Assigns to `ph` the polyhedron obtained from `ph` by "wrapping" the vector space defined by the first `n` space dimensions in `ds`[].

Parameters

- ***ph*** The polyhedron that is transformed;
- ***ds[ ]*** Specifies the space dimensions to be wrapped.
- ***n*** The first `n` space dimensions in the array `ds`[] will be wrapped.
- ***w*** The width of the bounded integer type corresponding to all the dimensions to be wrapped.
- ***r*** The representation of the bounded integer type corresponding to all the dimensions to be wrapped.
- ***o*** The overflow behavior of the bounded integer type corresponding to all the dimensions to be wrapped.
- ***pcs*** Possibly null pointer to a constraint system whose space dimensions are the first `n` dimensions in `ds`[]. If `*pcs` depends on variables not in `vars`, the behavior is undefined. When non-null, the constraint system is assumed to represent the conditional or looping construct guard with respect to which wrapping is performed. Since wrapping requires the computation of upper bounds

and due to non-distributivity of constraint refinement over upper bounds, passing a constraint system in this way can be more precise than refining the result of the wrapping operation with the constraints in `cs`.

complexity_threshold A precision parameter where higher values result in possibly improved precision.

wrap_individually Non-zero if the dimensions should be wrapped individually (something that results in much greater efficiency to the detriment of precision).

The documentation for this interface was generated from the following files:

- C_interface.dox
- ppl_c.h

10.157 ppl_Rational_Box_tag Interface Reference

Types and functions for ppl_Rational_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Rational_Box (ppl_const_Rational_Box_t ph)
- int ppl_new_Rational_Box_from_space_dimension (ppl_Rational_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Rational_Box_from_Int8_Box (ppl_Rational_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Rational_Box_from_Int16_Box (ppl_Rational_Box_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Rational_Box_from_Int32_Box (ppl_Rational_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Rational_Box_from_Int64_Box (ppl_Rational_Box_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Rational_Box_from_Uint8_Box (ppl_Rational_Box_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Rational_Box_from_Uint16_Box (ppl_Rational_Box_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Rational_Box_from_Uint32_Box (ppl_Rational_Box_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Rational_Box_from_Uint64_Box (ppl_Rational_Box_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Rational_Box_from_Z_Box (ppl_Rational_Box_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Rational_Box_from_Rational_Box (ppl_Rational_Box_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_int8_t (ppl_Rational_Box_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_int16_t (ppl_Rational_Box_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_int32_t (ppl_Rational_Box_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)

- int ppl_new_Rational_Box_from_BD_Shape_int64_t (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_mpz_class (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_mpq_class (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int8_t (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int16_t (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int32_t (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int64_t (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_mpz_class (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_mpq_class (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Rational_Box_from_C_Polyhedron (ppl_Rational_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Rational_Box_from_NNC_Polyhedron (ppl_Rational_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Rational_Box_from_Grid (ppl_Rational_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Rational_Box_from_Float_Box (ppl_Rational_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_float (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_float (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Rational_Box_from_Double_Box (ppl_Rational_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_double (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_double (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Rational_Box_from_Long_Double_Box (ppl_Rational_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Rational_Box_from_BD_Shape_long_double (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Rational_Box_from_Octagonal_Shape_long_double (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Rational_Box_from_Int8_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Int16_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Int32_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Int64_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Uint8_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)

- int ppl_new_Rational_Box_from_Uint16_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Uint32_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Uint64_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Z_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_Rational_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_int8_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_int16_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_int32_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_int64_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Rational_Box_from_C_Polyhedron_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Rational_Box_from_NNC_Polyhedron_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Rational_Box_from_Grid_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Rational_Box_from_Float_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_float_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_float_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Rational_Box_from_Double_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_double_with_complexity (ppl_Rational_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_double_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)

- int ppl_new_Rational_Box_from_Long_Double_Box_with_complexity (ppl_Rational_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Rational_Box_from_BD_Shape_long_double_with_complexity (ppl_Rational_Box_-t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Rational_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_-Rational_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Rational_Box_from_Constraint_System (ppl_Rational_Box_t *pph, ppl_const_-Constraint_System_t cs)
- int ppl_new_Rational_Box_from_Congruence_System (ppl_Rational_Box_t *pph, ppl_const_-Congruence_System_t cs)
- int ppl_new_Rational_Box_from_Generator_System (ppl_Rational_Box_t *pph, ppl_const_-Generator_System_t cs)
- int ppl_Rational_Box_space_dimension (ppl_const_Rational_Box_t ph, ppl_dimension_type *m)
- int ppl_Rational_Box_affine_dimension (ppl_const_Rational_Box_t ph, ppl_dimension_type *m)
- int ppl_Rational_Box_relation_with_Constraint (ppl_const_Rational_Box_t ph, ppl_const_-Constraint_t c)
- int ppl_Rational_Box_relation_with_Generator (ppl_const_Rational_Box_t ph, ppl_const_-Generator_t c)
- int ppl_Rational_Box_relation_with_Congruence (ppl_const_Rational_Box_t ph, ppl_const_-Congruence_t c)
- int ppl_Rational_Box_get_constraints (ppl_const_Rational_Box_t ph, ppl_const_Constraint_-System_t *pcs)
- int ppl_Rational_Box_get_congruences (ppl_const_Rational_Box_t ph, ppl_const_Congruence_-System_t *pcs)
- int ppl_Rational_Box_get_minimized_constraints (ppl_const_Rational_Box_t ph, ppl_const_-Constraint_System_t *pcs)
- int ppl_Rational_Box_get_minimized_congruences (ppl_const_Rational_Box_t ph, ppl_const_-Congruence_System_t *pcs)
- int ppl_Rational_Box_is_empty (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_is_universe (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_is_bounded (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_contains_integer_point (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_is_topologically_closed (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_is_discrete (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_topological_closure_assign (ppl_Rational_Box_t ph)
- int ppl_Rational_Box_bounds_from_above (ppl_const_Rational_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Rational_Box_bounds_from_below (ppl_const_Rational_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Rational_Box_maximize (ppl_const_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Rational_Box_minimize (ppl_const_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Rational_Box_maximize_with_point (ppl_const_Rational_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Rational_Box_minimize_with_point (ppl_const_Rational_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Rational_Box_frequency (ppl_const_Rational_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_-vd)

- int ppl_Rational_Box_contains_Rational_Box (ppl_const_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_strictly_contains_Rational_Box (ppl_const_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_is_disjoint_from_Rational_Box (ppl_const_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_equals_Rational_Box (ppl_const_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_OK (ppl_const_Rational_Box_t ph)
- int ppl_Rational_Box_add_constraint (ppl_Rational_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Rational_Box_add_congruence (ppl_Rational_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Rational_Box_add_constraints (ppl_Rational_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Rational_Box_add_congruences (ppl_Rational_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Rational_Box_refine_with_constraint (ppl_Rational_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Rational_Box_refine_with_congruence (ppl_Rational_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Rational_Box_refine_with_constraints (ppl_Rational_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Rational_Box_refine_with_congruences (ppl_Rational_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Rational_Box_intersection_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_upper_bound_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_difference_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_concatenate_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_time_elapse_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_upper_bound_assign_if_exact (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_simplify_using_context_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_constrains (ppl_Rational_Box_t ph, ppl_dimension_type var)
- int ppl_Rational_Box_unconstrain_space_dimension (ppl_Rational_Box_t ph, ppl_dimension_type var)
- int ppl_Rational_Box_unconstrain_space_dimensions (ppl_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Rational_Box_affine_image (ppl_Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_affine_preimage (ppl_Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_bounded_affine_image (ppl_Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_bounded_affine_preimage (ppl_Rational_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_generalized_affine_image (ppl_Rational_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_generalized_affine_preimage (ppl_Rational_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Rational_Box_generalized_affine_image_lhs_rhs (ppl_Rational_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)

- int ppl_Rational_Box_generalized_affine_preimage_lhs_rhs (ppl_Rational_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Rational_Box_add_space_dimensions_and_embed (ppl_Rational_Box_t ph, ppl_dimension_type d)
- int ppl_Rational_Box_add_space_dimensions_and_project (ppl_Rational_Box_t ph, ppl_dimension_type d)
- int ppl_Rational_Box_remove_space_dimensions (ppl_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Rational_Box_remove_higher_space_dimensions (ppl_Rational_Box_t ph, ppl_dimension_type d)
- int ppl_Rational_Box_expand_space_dimension (ppl_Rational_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Rational_Box_fold_space_dimensions (ppl_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Rational_Box_map_space_dimensions (ppl_Rational_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Rational_Box_drop_some_non_integer_points (ppl_Rational_Box_t ph, int complexity)
- int ppl_Rational_Box_drop_some_non_integer_points_2 (ppl_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Rational_Box_external_memory_in_bytes (ppl_const_Rational_Box_t ps, size_t ∗sz)
- int ppl_Rational_Box_total_memory_in_bytes (ppl_const_Rational_Box_t ps, size_t ∗sz)
- int ppl_Rational_Box_CC76_widening_assign_with_tokens (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y, unsigned ∗tp)
- int ppl_Rational_Box_CC76_widening_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_widening_assign_with_tokens (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y, unsigned ∗tp)
- int ppl_Rational_Box_widening_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y)
- int ppl_Rational_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Rational_Box_limited_CC76_extrapolation_assign (ppl_Rational_Box_t x, ppl_const_Rational_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Rational_Box_linear_partition (ppl_const_Rational_Box_t x, ppl_const_Rational_Box_t y, ppl_Rational_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Rational_Box_wrap_assign (ppl_Rational_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Rational_Box_recycle_Constraint_System (ppl_Rational_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Rational_Box_recycle_Congruence_System (ppl_Rational_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Rational_Box_recycle_Generator_System (ppl_Rational_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Rational_Box_from_Rational_Box (ppl_Rational_Box_t dst, ppl_const_Rational_Box_t src)
- int ppl_Rational_Box_add_recycled_constraints (ppl_Rational_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Rational_Box_add_recycled_congruences (ppl_Rational_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Rational_Box (ppl_const_Rational_Box_t pset)

- int ppl_termination_test_PR_Rational_Box (ppl_const_Rational_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Rational_Box (ppl_const_Rational_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Rational_Box (ppl_const_Rational_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Rational_Box (ppl_const_Rational_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Rational_Box (ppl_const_Rational_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after)
- int ppl_termination_test_PR_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Rational_Box_2 (ppl_const_Rational_Box_t pset_before, ppl_const_Rational_Box_t pset_after, ppl_Polyhedron_t ph)

10.157.1 Detailed Description

Types and functions for ppl_Rational_Box_tag.

10.157.2 Friends And Related Function Documentation

10.157.2.1 int ppl_all_affine_ranking_functions_MS_Rational_Box (ppl_const_Rational_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.157.2.2 int ppl_all_affine_ranking_functions_MS_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.157.2.3 int ppl_all_affine_ranking_functions_PR_Rational_Box (ppl_const_Rational_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.157.2.4 int ppl_all_affine_ranking_functions_PR_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.157.2.5 int ppl_assign_Rational_Box_from_Rational_Box (ppl_Rational_Box_t *dst*, ppl_const_Rational_Box_t *src*) [related]

10.157.2.6 int ppl_delete_Rational_Box (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.7 int ppl_new_Rational_Box_from_BD_Shape_double (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.157.2.8 int ppl_new_Rational_Box_from_BD_Shape_double_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.157.2.9 int ppl_new_Rational_Box_from_BD_Shape_float (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.157.2.10 int ppl_new_Rational_Box_from_BD_Shape_float_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.157.2.11 int ppl_new_Rational_Box_from_BD_Shape_int16_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.157.2.12 int ppl_new_Rational_Box_from_BD_Shape_int16_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.157.2.13 int ppl_new_Rational_Box_from_BD_Shape_int32_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.157.2.14 int ppl_new_Rational_Box_from_BD_Shape_int32_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.157.2.15 int ppl_new_Rational_Box_from_BD_Shape_int64_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.157.2.16 int ppl_new_Rational_Box_from_BD_Shape_int64_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.157.2.17 int ppl_new_Rational_Box_from_BD_Shape_int8_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.157.2.18 int ppl_new_Rational_Box_from_BD_Shape_int8_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.157.2.19 int ppl_new_Rational_Box_from_BD_Shape_long_double (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.157.2.20 int ppl_new_Rational_Box_from_BD_Shape_long_double_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.157.2.21 int ppl_new_Rational_Box_from_BD_Shape_mpq_class (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.157.2.22 int ppl_new_Rational_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.157.2.23 int ppl_new_Rational_Box_from_BD_Shape_mpz_class (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.157.2.24 int ppl_new_Rational_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.157.2.25 int ppl_new_Rational_Box_from_C_Polyhedron (ppl_Rational_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.157.2.26 int ppl_new_Rational_Box_from_C_Polyhedron_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.157.2.27 int ppl_new_Rational_Box_from_Congruence_System (ppl_Rational_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.157.2.28 int ppl_new_Rational_Box_from_Constraint_System (ppl_Rational_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.157.2.29 int ppl_new_Rational_Box_from_Double_Box (ppl_Rational_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.157.2.30 int ppl_new_Rational_Box_from_Double_Box_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.157.2.31 int ppl_new_Rational_Box_from_Float_Box (ppl_Rational_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.157.2.32 int ppl_new_Rational_Box_from_Float_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.157.2.33 int ppl_new_Rational_Box_from_Generator_System (ppl_Rational_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.157.2.34 int ppl_new_Rational_Box_from_Grid (ppl_Rational_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.157.2.35 int ppl_new_Rational_Box_from_Grid_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.157.2.36 int ppl_new_Rational_Box_from_Int16_Box (ppl_Rational_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.157.2.37 int ppl_new_Rational_Box_from_Int16_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.157.2.38 int ppl_new_Rational_Box_from_Int32_Box (ppl_Rational_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.157.2.39 int ppl_new_Rational_Box_from_Int32_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.157.2.40 int ppl_new_Rational_Box_from_Int64_Box (ppl_Rational_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.157.2.41 int ppl_new_Rational_Box_from_Int64_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.157.2.42 int ppl_new_Rational_Box_from_Int8_Box (ppl_Rational_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.157.2.43 int ppl_new_Rational_Box_from_Int8_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.157.2.44 int ppl_new_Rational_Box_from_Long_Double_Box (ppl_Rational_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.157.2.45 int ppl_new_Rational_Box_from_Long_Double_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.157.2.46 int ppl_new_Rational_Box_from_NNC_Polyhedron (ppl_Rational_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.157.2.47 int ppl_new_Rational_Box_from_NNC_Polyhedron_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.157.2.48 int ppl_new_Rational_Box_from_Octagonal_Shape_double (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.157.2.49 int ppl_new_Rational_Box_from_Octagonal_Shape_double_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.157.2.50 int ppl_new_Rational_Box_from_Octagonal_Shape_float (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.157.2.51 int ppl_new_Rational_Box_from_Octagonal_Shape_float_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.157.2.52 int ppl_new_Rational_Box_from_Octagonal_Shape_int16_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.157.2.53 int ppl_new_Rational_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.157.2.54 int ppl_new_Rational_Box_from_Octagonal_Shape_int32_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.157.2.55 int ppl_new_Rational_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.157.2.56 int ppl_new_Rational_Box_from_Octagonal_Shape_int64_t (ppl_Rational_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.157.2.57 int ppl_new_Rational_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.157.2.58 int ppl_new_Rational_Box_from_Octagonal_Shape_int8_t (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.157.2.59 int ppl_new_Rational_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.157.2.60 int ppl_new_Rational_Box_from_Octagonal_Shape_long_double (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.157.2.61 int ppl_new_Rational_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.157.2.62 int ppl_new_Rational_Box_from_Octagonal_Shape_mpq_class (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.157.2.63 int ppl_new_Rational_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.157.2.64 int ppl_new_Rational_Box_from_Octagonal_Shape_mpz_class (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.157.2.65 int ppl_new_Rational_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.157.2.66 int ppl_new_Rational_Box_from_Rational_Box (ppl_Rational_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.157.2.67 int ppl_new_Rational_Box_from_Rational_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.157.2.68 int ppl_new_Rational_Box_from_space_dimension (ppl_Rational_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.157.2.69 int ppl_new_Rational_Box_from_Uint16_Box (ppl_Rational_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.157.2.70 int ppl_new_Rational_Box_from_Uint16_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.157.2.71 int ppl_new_Rational_Box_from_Uint32_Box (ppl_Rational_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.157.2.72 int ppl_new_Rational_Box_from_Uint32_Box_with_complexity (ppl_Rational_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.157.2.73 int ppl_new_Rational_Box_from_Uint64_Box (ppl_Rational_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.157.2.74 int ppl_new_Rational_Box_from_Uint64_Box_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.157.2.75 int ppl_new_Rational_Box_from_Uint8_Box (ppl_Rational_Box_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.157.2.76 int ppl_new_Rational_Box_from_Uint8_Box_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.157.2.77 int ppl_new_Rational_Box_from_Z_Box (ppl_Rational_Box_t ∗ *pph*, ppl_const_Z_Box_t *ph*) [related]

10.157.2.78 int ppl_new_Rational_Box_from_Z_Box_with_complexity (ppl_Rational_Box_t ∗ *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.157.2.79 int ppl_new_Rational_Box_recycle_Congruence_System (ppl_Rational_Box_t ∗ *pph*, ppl_Congruence_System_t *cs*) [related]

10.157.2.80 int ppl_new_Rational_Box_recycle_Constraint_System (ppl_Rational_Box_t ∗ *pph*, ppl_Constraint_System_t *cs*) [related]

10.157.2.81 int ppl_new_Rational_Box_recycle_Generator_System (ppl_Rational_Box_t ∗ *pph*, ppl_Generator_System_t *cs*) [related]

10.157.2.82 int ppl_one_affine_ranking_function_MS_Rational_Box (ppl_const_Rational_Box_t *pset*, ppl_Generator_t *point*) [related]

10.157.2.83 int ppl_one_affine_ranking_function_MS_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.157.2.84 int ppl_one_affine_ranking_function_PR_Rational_Box (ppl_const_Rational_Box_t *pset*, ppl_Generator_t *point*) [related]

10.157.2.85 int ppl_one_affine_ranking_function_PR_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.157.2.86 int ppl_Rational_Box_add_congruence (ppl_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.157.2.87 int ppl_Rational_Box_add_congruences (ppl_Rational_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.157.2.88 int ppl_Rational_Box_add_constraint (ppl_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.157.2.89 int ppl_Rational_Box_add_constraints (ppl_Rational_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.157.2.90 int ppl_Rational_Box_add_recycled_congruences (ppl_Rational_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.157.2.91 int ppl_Rational_Box_add_recycled_constraints (ppl_Rational_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.157.2.92 int ppl_Rational_Box_add_space_dimensions_and_embed (ppl_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.157.2.93 int ppl_Rational_Box_add_space_dimensions_and_project (ppl_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.157.2.94 int ppl_Rational_Box_affine_dimension (ppl_const_Rational_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.157.2.95 int ppl_Rational_Box_affine_image (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.157.2.96 int ppl_Rational_Box_affine_preimage (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.157.2.97 int ppl_Rational_Box_bounded_affine_image (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.157.2.98 int ppl_Rational_Box_bounded_affine_preimage (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.157.2.99 int ppl_Rational_Box_bounds_from_above (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.157.2.100 int ppl_Rational_Box_bounds_from_below (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.157.2.101 int ppl_Rational_Box_CC76_widening_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.102 int ppl_Rational_Box_CC76_widening_assign_with_tokens (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*, unsigned * *tp*) [related]

10.157.2.103 int ppl_Rational_Box_concatenate_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.104 int ppl_Rational_Box_constrains (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*) [related]

10.157.2.105 int ppl_Rational_Box_contains_integer_point (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.106 int ppl_Rational_Box_contains_Rational_Box (ppl_const_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.107 int ppl_Rational_Box_difference_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.108 int ppl_Rational_Box_drop_some_non_integer_points (ppl_Rational_Box_t *ph*, int *complexity*) [related]

10.157.2.109 int ppl_Rational_Box_drop_some_non_integer_points_2 (ppl_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.157.2.110 int ppl_Rational_Box_equals_Rational_Box (ppl_const_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.111 int ppl_Rational_Box_expand_space_dimension (ppl_Rational_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.157.2.112 int ppl_Rational_Box_external_memory_in_bytes (ppl_const_Rational_Box_t *ps*, size_t * *sz*) [related]

10.157.2.113 int ppl_Rational_Box_fold_space_dimensions (ppl_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.157.2.114 int ppl_Rational_Box_frequency (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.157.2.115 int ppl_Rational_Box_generalized_affine_image (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.157.2.116 int ppl_Rational_Box_generalized_affine_image_lhs_rhs (ppl_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.157.2.117 int ppl_Rational_Box_generalized_affine_preimage (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.157.2.118 int ppl_Rational_Box_generalized_affine_preimage_lhs_rhs (ppl_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.157.2.119 int ppl_Rational_Box_get_congruences (ppl_const_Rational_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.157.2.120 int ppl_Rational_Box_get_constraints (ppl_const_Rational_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.157.2.121 int ppl_Rational_Box_get_minimized_congruences (ppl_const_Rational_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.157.2.122 int ppl_Rational_Box_get_minimized_constraints (ppl_const_Rational_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.157.2.123 int ppl_Rational_Box_intersection_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.124 int ppl_Rational_Box_is_bounded (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.125 int ppl_Rational_Box_is_discrete (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.126 int ppl_Rational_Box_is_disjoint_from_Rational_Box (ppl_const_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.127 int ppl_Rational_Box_is_empty (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.128 int ppl_Rational_Box_is_topologically_closed (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.129 int ppl_Rational_Box_is_universe (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.130 int ppl_Rational_Box_limited_CC76_extrapolation_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.157.2.131 int ppl_Rational_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_-Rational_Box_t *x*, ppl_const_Rational_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.157.2.132 int ppl_Rational_Box_linear_partition (ppl_const_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*, ppl_Rational_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.157.2.133 int ppl_Rational_Box_map_space_dimensions (ppl_Rational_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.157.2.134 int ppl_Rational_Box_maximize (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.157.2.135 int ppl_Rational_Box_maximize_with_point (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.157.2.136 int ppl_Rational_Box_minimize (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.157.2.137 int ppl_Rational_Box_minimize_with_point (ppl_const_Rational_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.157.2.138 int ppl_Rational_Box_OK (ppl_const_Rational_Box_t *ph*) [related]

10.157.2.139 int ppl_Rational_Box_refine_with_congruence (ppl_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.157.2.140 int ppl_Rational_Box_refine_with_congruences (ppl_Rational_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.157.2.141 int ppl_Rational_Box_refine_with_constraint (ppl_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.157.2.142 int ppl_Rational_Box_refine_with_constraints (ppl_Rational_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.157.2.143 int ppl_Rational_Box_relation_with_Congruence (ppl_const_Rational_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.157.2.144 int ppl_Rational_Box_relation_with_Constraint (ppl_const_Rational_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.157.2.145 int ppl_Rational_Box_relation_with_Generator (ppl_const_Rational_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.157.2.146 int ppl_Rational_Box_remove_higher_space_dimensions (ppl_Rational_Box_t *ph*, ppl_dimension_type *d*) [related]

10.157.2.147 int ppl_Rational_Box_remove_space_dimensions (ppl_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.157.2.148 int ppl_Rational_Box_simplify_using_context_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.149 int ppl_Rational_Box_space_dimension (ppl_const_Rational_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.157.2.150 int ppl_Rational_Box_strictly_contains_Rational_Box (ppl_const_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.151 int ppl_Rational_Box_time_elapse_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.152 int ppl_Rational_Box_topological_closure_assign (ppl_Rational_Box_t *ph*) [related]

10.157.2.153 int ppl_Rational_Box_total_memory_in_bytes (ppl_const_Rational_Box_t *ps*, size_t ∗ *sz*) [related]

10.157.2.154 int ppl_Rational_Box_unconstrain_space_dimension (ppl_Rational_Box_t *ph*, ppl_dimension_type *var*) [related]

10.157.2.155 int ppl_Rational_Box_unconstrain_space_dimensions (ppl_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.157.2.156 int ppl_Rational_Box_upper_bound_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.157 int ppl_Rational_Box_upper_bound_assign_if_exact (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.158 int ppl_Rational_Box_widening_assign (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*) [related]

10.157.2.159 int ppl_Rational_Box_widening_assign_with_tokens (ppl_Rational_Box_t *x*, ppl_const_Rational_Box_t *y*, unsigned ∗ *tp*) [related]

10.157.2.160 int ppl_Rational_Box_wrap_assign (ppl_Rational_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_-Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

10.157.2.161 int ppl_termination_test_MS_Rational_Box (ppl_const_Rational_Box_t *pset*) [related]

10.157.2.162 int ppl_termination_test_MS_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*) [related]

10.157.2.163 int ppl_termination_test_PR_Rational_Box (ppl_const_Rational_Box_t *pset*) [related]

10.157.2.164 int ppl_termination_test_PR_Rational_Box_2 (ppl_const_Rational_Box_t *pset_before*, ppl_const_Rational_Box_t *pset_after*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.158 ppl_Uint16_Box_tag Interface Reference

Types and functions for ppl_Uint16_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Uint16_Box (ppl_const_Uint16_Box_t ph)
- int ppl_new_Uint16_Box_from_space_dimension (ppl_Uint16_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Uint16_Box_from_Int8_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Uint16_Box_from_Int16_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Uint16_Box_from_Int32_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Uint16_Box_from_Int64_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Uint16_Box_from_Uint8_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Uint16_Box_from_Uint16_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Uint16_Box_from_Uint32_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Uint16_Box_from_Uint64_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Uint16_Box_from_Z_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Z_Box_t ph)
- int ppl_new_Uint16_Box_from_Rational_Box (ppl_Uint16_Box_t ∗pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_int8_t (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_int16_t (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_int32_t (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_int64_t (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_mpz_class (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_mpq_class (ppl_Uint16_Box_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int8_t (ppl_Uint16_Box_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int16_t (ppl_Uint16_Box_t ∗pph, ppl_const_Octagonal_Shape_int16_t_t ph)

- int ppl_new_Uint16_Box_from_Octagonal_Shape_int32_t (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int64_t (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_mpz_class (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_mpq_class (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Uint16_Box_from_C_Polyhedron (ppl_Uint16_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint16_Box_from_NNC_Polyhedron (ppl_Uint16_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint16_Box_from_Grid (ppl_Uint16_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Uint16_Box_from_Float_Box (ppl_Uint16_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_float (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_float (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Uint16_Box_from_Double_Box (ppl_Uint16_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_double (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_double (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Uint16_Box_from_Long_Double_Box (ppl_Uint16_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Uint16_Box_from_BD_Shape_long_double (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_long_double (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Uint16_Box_from_Int8_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Int16_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Int32_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Int64_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Uint8_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Uint16_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Uint32_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Uint64_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Z_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Rational_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)

- int ppl_new_Uint16_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint16_Box_-t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint16_Box_-t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint16_Box_-t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint16_-Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint16_-Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint16_Box_from_C_Polyhedron_with_complexity (ppl_Uint16_Box_t *pph, ppl_-const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint16_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Grid_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Float_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_-Float_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_float_with_complexity (ppl_Uint16_Box_t *pph, ppl_-const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Double_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_-const_Double_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_double_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint16_Box_-t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Long_Double_Box_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Uint16_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint16_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint16_-Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint16_Box_from_Constraint_System (ppl_Uint16_Box_t *pph, ppl_const_-Constraint_System_t cs)
- int ppl_new_Uint16_Box_from_Congruence_System (ppl_Uint16_Box_t *pph, ppl_const_-Congruence_System_t cs)
- int ppl_new_Uint16_Box_from_Generator_System (ppl_Uint16_Box_t *pph, ppl_const_-Generator_System_t cs)

- int ppl_Uint16_Box_space_dimension (ppl_const_Uint16_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint16_Box_affine_dimension (ppl_const_Uint16_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint16_Box_relation_with_Constraint (ppl_const_Uint16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint16_Box_relation_with_Generator (ppl_const_Uint16_Box_t ph, ppl_const_Generator_t c)
- int ppl_Uint16_Box_relation_with_Congruence (ppl_const_Uint16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint16_Box_get_constraints (ppl_const_Uint16_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint16_Box_get_congruences (ppl_const_Uint16_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint16_Box_get_minimized_constraints (ppl_const_Uint16_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint16_Box_get_minimized_congruences (ppl_const_Uint16_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint16_Box_is_empty (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_is_universe (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_is_bounded (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_contains_integer_point (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_is_topologically_closed (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_is_discrete (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_topological_closure_assign (ppl_Uint16_Box_t ph)
- int ppl_Uint16_Box_bounds_from_above (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint16_Box_bounds_from_below (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint16_Box_maximize (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint16_Box_minimize (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint16_Box_maximize_with_point (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint16_Box_minimize_with_point (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint16_Box_frequency (ppl_const_Uint16_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Uint16_Box_contains_Uint16_Box (ppl_const_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_strictly_contains_Uint16_Box (ppl_const_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_is_disjoint_from_Uint16_Box (ppl_const_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_equals_Uint16_Box (ppl_const_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_OK (ppl_const_Uint16_Box_t ph)
- int ppl_Uint16_Box_add_constraint (ppl_Uint16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint16_Box_add_congruence (ppl_Uint16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint16_Box_add_constraints (ppl_Uint16_Box_t ph, ppl_const_Constraint_System_t cs)

- int ppl_Uint16_Box_add_congruences (ppl_Uint16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint16_Box_refine_with_constraint (ppl_Uint16_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint16_Box_refine_with_congruence (ppl_Uint16_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint16_Box_refine_with_constraints (ppl_Uint16_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint16_Box_refine_with_congruences (ppl_Uint16_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint16_Box_intersection_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_upper_bound_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_difference_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_concatenate_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_time_elapse_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_upper_bound_assign_if_exact (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_simplify_using_context_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_constrains (ppl_Uint16_Box_t ph, ppl_dimension_type var)
- int ppl_Uint16_Box_unconstrain_space_dimension (ppl_Uint16_Box_t ph, ppl_dimension_type var)
- int ppl_Uint16_Box_unconstrain_space_dimensions (ppl_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint16_Box_affine_image (ppl_Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_affine_preimage (ppl_Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_bounded_affine_image (ppl_Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_bounded_affine_preimage (ppl_Uint16_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_generalized_affine_image (ppl_Uint16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_generalized_affine_preimage (ppl_Uint16_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint16_Box_generalized_affine_image_lhs_rhs (ppl_Uint16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint16_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint16_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint16_Box_add_space_dimensions_and_embed (ppl_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Uint16_Box_add_space_dimensions_and_project (ppl_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Uint16_Box_remove_space_dimensions (ppl_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint16_Box_remove_higher_space_dimensions (ppl_Uint16_Box_t ph, ppl_dimension_type d)
- int ppl_Uint16_Box_expand_space_dimension (ppl_Uint16_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Uint16_Box_fold_space_dimensions (ppl_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)

- int ppl_Uint16_Box_map_space_dimensions (ppl_Uint16_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Uint16_Box_drop_some_non_integer_points (ppl_Uint16_Box_t ph, int complexity)
- int ppl_Uint16_Box_drop_some_non_integer_points_2 (ppl_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Uint16_Box_external_memory_in_bytes (ppl_const_Uint16_Box_t ps, size_t ∗sz)
- int ppl_Uint16_Box_total_memory_in_bytes (ppl_const_Uint16_Box_t ps, size_t ∗sz)
- int ppl_Uint16_Box_CC76_widening_assign_with_tokens (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y, unsigned ∗tp)
- int ppl_Uint16_Box_CC76_widening_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_widening_assign_with_tokens (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y, unsigned ∗tp)
- int ppl_Uint16_Box_widening_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y)
- int ppl_Uint16_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Uint16_Box_limited_CC76_extrapolation_assign (ppl_Uint16_Box_t x, ppl_const_Uint16_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Uint16_Box_linear_partition (ppl_const_Uint16_Box_t x, ppl_const_Uint16_Box_t y, ppl_Uint16_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Uint16_Box_wrap_assign (ppl_Uint16_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Uint16_Box_recycle_Constraint_System (ppl_Uint16_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Uint16_Box_recycle_Congruence_System (ppl_Uint16_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Uint16_Box_recycle_Generator_System (ppl_Uint16_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Uint16_Box_from_Uint16_Box (ppl_Uint16_Box_t dst, ppl_const_Uint16_Box_t src)
- int ppl_Uint16_Box_add_recycled_constraints (ppl_Uint16_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Uint16_Box_add_recycled_congruences (ppl_Uint16_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Uint16_Box (ppl_const_Uint16_Box_t pset)
- int ppl_termination_test_PR_Uint16_Box (ppl_const_Uint16_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Uint16_Box (ppl_const_Uint16_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint16_Box (ppl_const_Uint16_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint16_Box (ppl_const_Uint16_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint16_Box (ppl_const_Uint16_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after)
- int ppl_termination_test_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after, ppl_Generator_t point)

- int ppl_all_affine_ranking_functions_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t pset_before, ppl_const_Uint16_Box_t pset_after, ppl_Polyhedron_t ph)

10.158.1 Detailed Description

Types and functions for ppl_Uint16_Box_tag.

10.158.2 Friends And Related Function Documentation

10.158.2.1 int ppl_all_affine_ranking_functions_MS_Uint16_Box (ppl_const_Uint16_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.158.2.2 int ppl_all_affine_ranking_functions_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.158.2.3 int ppl_all_affine_ranking_functions_PR_Uint16_Box (ppl_const_Uint16_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.158.2.4 int ppl_all_affine_ranking_functions_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.158.2.5 int ppl_assign_Uint16_Box_from_Uint16_Box (ppl_Uint16_Box_t *dst*, ppl_const_Uint16_Box_t *src*) [related]

10.158.2.6 int ppl_delete_Uint16_Box (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.7 int ppl_new_Uint16_Box_from_BD_Shape_double (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.158.2.8 int ppl_new_Uint16_Box_from_BD_Shape_double_with_complexity (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.158.2.9 int ppl_new_Uint16_Box_from_BD_Shape_float (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.158.2.10 int ppl_new_Uint16_Box_from_BD_Shape_float_with_complexity (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.158.2.11 int ppl_new_Uint16_Box_from_BD_Shape_int16_t (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.158.2.12 int ppl_new_Uint16_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.158.2.13 int ppl_new_Uint16_Box_from_BD_Shape_int32_t (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.158.2.14 int ppl_new_Uint16_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.158.2.15 int ppl_new_Uint16_Box_from_BD_Shape_int64_t (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.158.2.16 int ppl_new_Uint16_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint16_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.158.2.17 int ppl_new_Uint16_Box_from_BD_Shape_int8_t (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.158.2.18 int ppl_new_Uint16_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.158.2.19 int ppl_new_Uint16_Box_from_BD_Shape_long_double (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.158.2.20 int ppl_new_Uint16_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.158.2.21 int ppl_new_Uint16_Box_from_BD_Shape_mpq_class (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.158.2.22 int ppl_new_Uint16_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.158.2.23 int ppl_new_Uint16_Box_from_BD_Shape_mpz_class (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.158.2.24 int ppl_new_Uint16_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.158.2.25 int ppl_new_Uint16_Box_from_C_Polyhedron (ppl_Uint16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.158.2.26 int ppl_new_Uint16_Box_from_C_Polyhedron_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.158.2.27 int ppl_new_Uint16_Box_from_Congruence_System (ppl_Uint16_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.158.2.28 int ppl_new_Uint16_Box_from_Constraint_System (ppl_Uint16_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.158.2.29 int ppl_new_Uint16_Box_from_Double_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.158.2.30 int ppl_new_Uint16_Box_from_Double_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.158.2.31 int ppl_new_Uint16_Box_from_Float_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.158.2.32 int ppl_new_Uint16_Box_from_Float_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.158.2.33 int ppl_new_Uint16_Box_from_Generator_System (ppl_Uint16_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.158.2.34 int ppl_new_Uint16_Box_from_Grid (ppl_Uint16_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.158.2.35 int ppl_new_Uint16_Box_from_Grid_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.158.2.36 int ppl_new_Uint16_Box_from_Int16_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.158.2.37 int ppl_new_Uint16_Box_from_Int16_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.158.2.38 int ppl_new_Uint16_Box_from_Int32_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.158.2.39 int ppl_new_Uint16_Box_from_Int32_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.158.2.40 int ppl_new_Uint16_Box_from_Int64_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.158.2.41 int ppl_new_Uint16_Box_from_Int64_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.158.2.42 int ppl_new_Uint16_Box_from_Int8_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.158.2.43 int ppl_new_Uint16_Box_from_Int8_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.158.2.44 int ppl_new_Uint16_Box_from_Long_Double_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.158.2.45 int ppl_new_Uint16_Box_from_Long_Double_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.158.2.46 int ppl_new_Uint16_Box_from_NNC_Polyhedron (ppl_Uint16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.158.2.47 int ppl_new_Uint16_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.158.2.48 int ppl_new_Uint16_Box_from_Octagonal_Shape_double (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.158.2.49 int ppl_new_Uint16_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.158.2.50 int ppl_new_Uint16_Box_from_Octagonal_Shape_float (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.158.2.51 int ppl_new_Uint16_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.158.2.52 int ppl_new_Uint16_Box_from_Octagonal_Shape_int16_t (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.158.2.53 int ppl_new_Uint16_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.158.2.54 int ppl_new_Uint16_Box_from_Octagonal_Shape_int32_t (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.158.2.55 int ppl_new_Uint16_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.158.2.56 int ppl_new_Uint16_Box_from_Octagonal_Shape_int64_t (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.158.2.57 int ppl_new_Uint16_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.158.2.58 int ppl_new_Uint16_Box_from_Octagonal_Shape_int8_t (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.158.2.59 int ppl_new_Uint16_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.158.2.60 int ppl_new_Uint16_Box_from_Octagonal_Shape_long_double (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.158.2.61 int ppl_new_Uint16_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.158.2.62 int ppl_new_Uint16_Box_from_Octagonal_Shape_mpq_class (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.158.2.63 int ppl_new_Uint16_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.158.2.64 int ppl_new_Uint16_Box_from_Octagonal_Shape_mpz_class (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.158.2.65 int ppl_new_Uint16_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.158.2.66 int ppl_new_Uint16_Box_from_Rational_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.158.2.67 int ppl_new_Uint16_Box_from_Rational_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.158.2.68 int ppl_new_Uint16_Box_from_space_dimension (ppl_Uint16_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.158.2.69 int ppl_new_Uint16_Box_from_Uint16_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.70 int ppl_new_Uint16_Box_from_Uint16_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.158.2.71 int ppl_new_Uint16_Box_from_Uint32_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.158.2.72 int ppl_new_Uint16_Box_from_Uint32_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.158.2.73 int ppl_new_Uint16_Box_from_Uint64_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.158.2.74 int ppl_new_Uint16_Box_from_Uint64_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.158.2.75 int ppl_new_Uint16_Box_from_Uint8_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.158.2.76 int ppl_new_Uint16_Box_from_Uint8_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.158.2.77 int ppl_new_Uint16_Box_from_Z_Box (ppl_Uint16_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.158.2.78 int ppl_new_Uint16_Box_from_Z_Box_with_complexity (ppl_Uint16_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.158.2.79 int ppl_new_Uint16_Box_recycle_Congruence_System (ppl_Uint16_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.158.2.80 int ppl_new_Uint16_Box_recycle_Constraint_System (ppl_Uint16_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.158.2.81 int ppl_new_Uint16_Box_recycle_Generator_System (ppl_Uint16_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.158.2.82 int ppl_one_affine_ranking_function_MS_Uint16_Box (ppl_const_Uint16_Box_t *pset*, ppl_Generator_t *point*) [related]

10.158.2.83 int ppl_one_affine_ranking_function_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.158.2.84 int ppl_one_affine_ranking_function_PR_Uint16_Box (ppl_const_Uint16_Box_t *pset*, ppl_Generator_t *point*) [related]

10.158.2.85 int ppl_one_affine_ranking_function_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.158.2.86 int ppl_termination_test_MS_Uint16_Box (ppl_const_Uint16_Box_t *pset*) [related]

10.158.2.87 int ppl_termination_test_MS_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*) [related]

10.158.2.88 int ppl_termination_test_PR_Uint16_Box (ppl_const_Uint16_Box_t *pset*) [related]

10.158.2.89 int ppl_termination_test_PR_Uint16_Box_2 (ppl_const_Uint16_Box_t *pset_before*, ppl_const_Uint16_Box_t *pset_after*) [related]

10.158.2.90 int ppl_Uint16_Box_add_congruence (ppl_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.158.2.91 int ppl_Uint16_Box_add_congruences (ppl_Uint16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.158.2.92 int ppl_Uint16_Box_add_constraint (ppl_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.158.2.93 int ppl_Uint16_Box_add_constraints (ppl_Uint16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.158.2.94 int ppl_Uint16_Box_add_recycled_congruences (ppl_Uint16_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.158.2.95 int ppl_Uint16_Box_add_recycled_constraints (ppl_Uint16_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.158.2.96 int ppl_Uint16_Box_add_space_dimensions_and_embed (ppl_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.158.2.97 int ppl_Uint16_Box_add_space_dimensions_and_project (ppl_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.158.2.98 int ppl_Uint16_Box_affine_dimension (ppl_const_Uint16_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.158.2.99 int ppl_Uint16_Box_affine_image (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.158.2.100 int ppl_Uint16_Box_affine_preimage (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.158.2.101 int ppl_Uint16_Box_bounded_affine_image (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.158.2.102 int ppl_Uint16_Box_bounded_affine_preimage (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.158.2.103 int ppl_Uint16_Box_bounds_from_above (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.158.2.104 int ppl_Uint16_Box_bounds_from_below (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.158.2.105 int ppl_Uint16_Box_CC76_widening_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.106 int ppl_Uint16_Box_CC76_widening_assign_with_tokens (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*, unsigned ∗ *tp*) [related]

10.158.2.107 int ppl_Uint16_Box_concatenate_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.108 int ppl_Uint16_Box_constrains (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.158.2.109 int ppl_Uint16_Box_contains_integer_point (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.110 int ppl_Uint16_Box_contains_Uint16_Box (ppl_const_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.111 int ppl_Uint16_Box_difference_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.112 int ppl_Uint16_Box_drop_some_non_integer_points (ppl_Uint16_Box_t *ph*, int *complexity*) [related]

10.158.2.113 int ppl_Uint16_Box_drop_some_non_integer_points_2 (ppl_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.158.2.114 int ppl_Uint16_Box_equals_Uint16_Box (ppl_const_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.115 int ppl_Uint16_Box_expand_space_dimension (ppl_Uint16_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.158.2.116 int ppl_Uint16_Box_external_memory_in_bytes (ppl_const_Uint16_Box_t *ps*, size_t ∗ *sz*) [related]

10.158.2.117 int ppl_Uint16_Box_fold_space_dimensions (ppl_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.158.2.118 int ppl_Uint16_Box_frequency (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.158.2.119 int ppl_Uint16_Box_generalized_affine_image (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.158.2.120 int ppl_Uint16_Box_generalized_affine_image_lhs_rhs (ppl_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.158.2.121 int ppl_Uint16_Box_generalized_affine_preimage (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.158.2.122 int ppl_Uint16_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.158.2.123 int ppl_Uint16_Box_get_congruences (ppl_const_Uint16_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.158.2.124 int ppl_Uint16_Box_get_constraints (ppl_const_Uint16_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.158.2.125 int ppl_Uint16_Box_get_minimized_congruences (ppl_const_Uint16_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.158.2.126 int ppl_Uint16_Box_get_minimized_constraints (ppl_const_Uint16_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.158.2.127 int ppl_Uint16_Box_intersection_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.128 int ppl_Uint16_Box_is_bounded (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.129 int ppl_Uint16_Box_is_discrete (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.130 int ppl_Uint16_Box_is_disjoint_from_Uint16_Box (ppl_const_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.131 int ppl_Uint16_Box_is_empty (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.132 int ppl_Uint16_Box_is_topologically_closed (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.133 int ppl_Uint16_Box_is_universe (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.134 int ppl_Uint16_Box_limited_CC76_extrapolation_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.158.2.135 int ppl_Uint16_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.158.2.136 int ppl_Uint16_Box_linear_partition (ppl_const_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*, ppl_Uint16_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.158.2.137 int ppl_Uint16_Box_map_space_dimensions (ppl_Uint16_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.158.2.138 int ppl_Uint16_Box_maximize (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.158.2.139 int ppl_Uint16_Box_maximize_with_point (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.158.2.140 int ppl_Uint16_Box_minimize (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.158.2.141 int ppl_Uint16_Box_minimize_with_point (ppl_const_Uint16_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.158.2.142 int ppl_Uint16_Box_OK (ppl_const_Uint16_Box_t *ph*) [related]

10.158.2.143 int ppl_Uint16_Box_refine_with_congruence (ppl_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.158.2.144 int ppl_Uint16_Box_refine_with_congruences (ppl_Uint16_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.158.2.145 int ppl_Uint16_Box_refine_with_constraint (ppl_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.158.2.146 int ppl_Uint16_Box_refine_with_constraints (ppl_Uint16_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.158.2.147 int ppl_Uint16_Box_relation_with_Congruence (ppl_const_Uint16_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.158.2.148 int ppl_Uint16_Box_relation_with_Constraint (ppl_const_Uint16_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.158.2.149 int ppl_Uint16_Box_relation_with_Generator (ppl_const_Uint16_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.158.2.150 int ppl_Uint16_Box_remove_higher_space_dimensions (ppl_Uint16_Box_t *ph*, ppl_dimension_type *d*) [related]

10.158.2.151 int ppl_Uint16_Box_remove_space_dimensions (ppl_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.158.2.152 int ppl_Uint16_Box_simplify_using_context_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.153 int ppl_Uint16_Box_space_dimension (ppl_const_Uint16_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.158.2.154 int ppl_Uint16_Box_strictly_contains_Uint16_Box (ppl_const_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.155 int ppl_Uint16_Box_time_elapse_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.156 int ppl_Uint16_Box_topological_closure_assign (ppl_Uint16_Box_t *ph*) [related]

10.158.2.157 int ppl_Uint16_Box_total_memory_in_bytes (ppl_const_Uint16_Box_t *ps*, size_t ∗ *sz*) [related]

10.158.2.158 int ppl_Uint16_Box_unconstrain_space_dimension (ppl_Uint16_Box_t *ph*, ppl_dimension_type *var*) [related]

10.158.2.159 int ppl_Uint16_Box_unconstrain_space_dimensions (ppl_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.158.2.160 int ppl_Uint16_Box_upper_bound_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.161 int ppl_Uint16_Box_upper_bound_assign_if_exact (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.162 int ppl_Uint16_Box_widening_assign (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*) [related]

10.158.2.163 int ppl_Uint16_Box_widening_assign_with_tokens (ppl_Uint16_Box_t *x*, ppl_const_Uint16_Box_t *y*, unsigned * *tp*) [related]

10.158.2.164 int ppl_Uint16_Box_wrap_assign (ppl_Uint16_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.159 ppl_Uint32_Box_tag Interface Reference

Types and functions for ppl_Uint32_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Uint32_Box (ppl_const_Uint32_Box_t ph)

- int ppl_new_Uint32_Box_from_space_dimension (ppl_Uint32_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Uint32_Box_from_Int8_Box (ppl_Uint32_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Uint32_Box_from_Int16_Box (ppl_Uint32_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Uint32_Box_from_Int32_Box (ppl_Uint32_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Uint32_Box_from_Int64_Box (ppl_Uint32_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Uint32_Box_from_Uint8_Box (ppl_Uint32_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Uint32_Box_from_Uint16_Box (ppl_Uint32_Box_t *pph, ppl_const_Uint16_Box_-t ph)
- int ppl_new_Uint32_Box_from_Uint32_Box (ppl_Uint32_Box_t *pph, ppl_const_Uint32_Box_-t ph)
- int ppl_new_Uint32_Box_from_Uint64_Box (ppl_Uint32_Box_t *pph, ppl_const_Uint64_Box_-t ph)
- int ppl_new_Uint32_Box_from_Z_Box (ppl_Uint32_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Uint32_Box_from_Rational_Box (ppl_Uint32_Box_t *pph, ppl_const_Rational_-Box_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_int8_t (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_int8_t_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_int16_t (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_int16_t_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_int32_t (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_int32_t_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_int64_t (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_int64_t_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_mpz_class (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_mpz_class_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_mpq_class (ppl_Uint32_Box_t *pph, ppl_const_BD_-Shape_mpq_class_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int8_t (ppl_Uint32_Box_t *pph, ppl_const_-Octagonal_Shape_int8_t_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int16_t (ppl_Uint32_Box_t *pph, ppl_const_-Octagonal_Shape_int16_t_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int32_t (ppl_Uint32_Box_t *pph, ppl_const_-Octagonal_Shape_int32_t_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int64_t (ppl_Uint32_Box_t *pph, ppl_const_-Octagonal_Shape_int64_t_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_mpz_class (ppl_Uint32_Box_t *pph, ppl_-const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_mpq_class (ppl_Uint32_Box_t *pph, ppl_-const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Uint32_Box_from_C_Polyhedron (ppl_Uint32_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint32_Box_from_NNC_Polyhedron (ppl_Uint32_Box_t *pph, ppl_const_-Polyhedron_t ph)
- int ppl_new_Uint32_Box_from_Grid (ppl_Uint32_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Uint32_Box_from_Float_Box (ppl_Uint32_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_float (ppl_Uint32_Box_t *pph, ppl_const_BD_Shape_-float_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_float (ppl_Uint32_Box_t *pph, ppl_const_-Octagonal_Shape_float_t ph)
- int ppl_new_Uint32_Box_from_Double_Box (ppl_Uint32_Box_t *pph, ppl_const_Double_Box_t ph)

- int ppl_new_Uint32_Box_from_BD_Shape_double (ppl_Uint32_Box_t ∗pph, ppl_const_BD_-Shape_double_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_double (ppl_Uint32_Box_t ∗pph, ppl_const_-Octagonal_Shape_double_t ph)
- int ppl_new_Uint32_Box_from_Long_Double_Box (ppl_Uint32_Box_t ∗pph, ppl_const_Long_-Double_Box_t ph)
- int ppl_new_Uint32_Box_from_BD_Shape_long_double (ppl_Uint32_Box_t ∗pph, ppl_const_-BD_Shape_long_double_t ph)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_long_double (ppl_Uint32_Box_t ∗pph, ppl_-const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Uint32_Box_from_Int8_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_-Int8_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Int16_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Int16_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Int32_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Int32_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Int64_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Int64_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Uint8_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Uint8_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Uint16_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Uint16_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Uint32_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Uint32_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Uint64_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Uint64_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Z_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_Z_-Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Rational_Box_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_-const_Rational_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint32_Box_t ∗pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint32_Box_-t ∗pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint32_Box_-t ∗pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint32_Box_-t ∗pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint32_-Box_t ∗pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)

- int ppl_new_Uint32_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint32_Box_from_C_Polyhedron_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint32_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Grid_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Float_Box_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_float_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Double_Box_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_double_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Long_Double_Box_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Uint32_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint32_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint32_Box_from_Constraint_System (ppl_Uint32_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Uint32_Box_from_Congruence_System (ppl_Uint32_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Uint32_Box_from_Generator_System (ppl_Uint32_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Uint32_Box_space_dimension (ppl_const_Uint32_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint32_Box_affine_dimension (ppl_const_Uint32_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint32_Box_relation_with_Constraint (ppl_const_Uint32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint32_Box_relation_with_Generator (ppl_const_Uint32_Box_t ph, ppl_const_Generator_t c)
- int ppl_Uint32_Box_relation_with_Congruence (ppl_const_Uint32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint32_Box_get_constraints (ppl_const_Uint32_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint32_Box_get_congruences (ppl_const_Uint32_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint32_Box_get_minimized_constraints (ppl_const_Uint32_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint32_Box_get_minimized_congruences (ppl_const_Uint32_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint32_Box_is_empty (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_is_universe (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_is_bounded (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_contains_integer_point (ppl_const_Uint32_Box_t ph)

- int ppl_Uint32_Box_is_topologically_closed (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_is_discrete (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_topological_closure_assign (ppl_Uint32_Box_t ph)
- int ppl_Uint32_Box_bounds_from_above (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint32_Box_bounds_from_below (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint32_Box_maximize (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint32_Box_minimize (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint32_Box_maximize_with_point (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint32_Box_minimize_with_point (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint32_Box_frequency (ppl_const_Uint32_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Uint32_Box_contains_Uint32_Box (ppl_const_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_strictly_contains_Uint32_Box (ppl_const_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_is_disjoint_from_Uint32_Box (ppl_const_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_equals_Uint32_Box (ppl_const_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_OK (ppl_const_Uint32_Box_t ph)
- int ppl_Uint32_Box_add_constraint (ppl_Uint32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint32_Box_add_congruence (ppl_Uint32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint32_Box_add_constraints (ppl_Uint32_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint32_Box_add_congruences (ppl_Uint32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint32_Box_refine_with_constraint (ppl_Uint32_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint32_Box_refine_with_congruence (ppl_Uint32_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint32_Box_refine_with_constraints (ppl_Uint32_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint32_Box_refine_with_congruences (ppl_Uint32_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint32_Box_intersection_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_upper_bound_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_difference_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_concatenate_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_time_elapse_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_upper_bound_assign_if_exact (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_simplify_using_context_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_constrains (ppl_Uint32_Box_t ph, ppl_dimension_type var)
- int ppl_Uint32_Box_unconstrain_space_dimension (ppl_Uint32_Box_t ph, ppl_dimension_type var)
- int ppl_Uint32_Box_unconstrain_space_dimensions (ppl_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n)

- int ppl_Uint32_Box_affine_image (ppl_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_affine_preimage (ppl_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_bounded_affine_image (ppl_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_bounded_affine_preimage (ppl_Uint32_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_generalized_affine_image (ppl_Uint32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_generalized_affine_preimage (ppl_Uint32_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint32_Box_generalized_affine_image_lhs_rhs (ppl_Uint32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint32_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint32_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint32_Box_add_space_dimensions_and_embed (ppl_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Uint32_Box_add_space_dimensions_and_project (ppl_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Uint32_Box_remove_space_dimensions (ppl_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint32_Box_remove_higher_space_dimensions (ppl_Uint32_Box_t ph, ppl_dimension_type d)
- int ppl_Uint32_Box_expand_space_dimension (ppl_Uint32_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Uint32_Box_fold_space_dimensions (ppl_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Uint32_Box_map_space_dimensions (ppl_Uint32_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Uint32_Box_drop_some_non_integer_points (ppl_Uint32_Box_t ph, int complexity)
- int ppl_Uint32_Box_drop_some_non_integer_points_2 (ppl_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Uint32_Box_external_memory_in_bytes (ppl_const_Uint32_Box_t ps, size_t ∗sz)
- int ppl_Uint32_Box_total_memory_in_bytes (ppl_const_Uint32_Box_t ps, size_t ∗sz)
- int ppl_Uint32_Box_CC76_widening_assign_with_tokens (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y, unsigned ∗tp)
- int ppl_Uint32_Box_CC76_widening_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_widening_assign_with_tokens (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y, unsigned ∗tp)
- int ppl_Uint32_Box_widening_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y)
- int ppl_Uint32_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Uint32_Box_limited_CC76_extrapolation_assign (ppl_Uint32_Box_t x, ppl_const_Uint32_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Uint32_Box_linear_partition (ppl_const_Uint32_Box_t x, ppl_const_Uint32_Box_t y, ppl_Uint32_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)

- int ppl_Uint32_Box_wrap_assign (ppl_Uint32_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Uint32_Box_recycle_Constraint_System (ppl_Uint32_Box_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Uint32_Box_recycle_Congruence_System (ppl_Uint32_Box_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Uint32_Box_recycle_Generator_System (ppl_Uint32_Box_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Uint32_Box_from_Uint32_Box (ppl_Uint32_Box_t dst, ppl_const_Uint32_Box_t src)
- int ppl_Uint32_Box_add_recycled_constraints (ppl_Uint32_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Uint32_Box_add_recycled_congruences (ppl_Uint32_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Uint32_Box (ppl_const_Uint32_Box_t pset)
- int ppl_termination_test_PR_Uint32_Box (ppl_const_Uint32_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Uint32_Box (ppl_const_Uint32_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint32_Box (ppl_const_Uint32_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint32_Box (ppl_const_Uint32_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint32_Box (ppl_const_Uint32_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after)
- int ppl_termination_test_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t pset_before, ppl_const_Uint32_Box_t pset_after, ppl_Polyhedron_t ph)

10.159.1 Detailed Description

Types and functions for ppl_Uint32_Box_tag.

10.159.2 Friends And Related Function Documentation

10.159.2.1 int ppl_all_affine_ranking_functions_MS_Uint32_Box (ppl_const_Uint32_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.159.2.2 int ppl_all_affine_ranking_functions_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.159.2.3 int ppl_all_affine_ranking_functions_PR_Uint32_Box (ppl_const_Uint32_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.159.2.4 int ppl_all_affine_ranking_functions_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.159.2.5 int ppl_assign_Uint32_Box_from_Uint32_Box (ppl_Uint32_Box_t *dst*, ppl_const_Uint32_Box_t *src*) [related]

10.159.2.6 int ppl_delete_Uint32_Box (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.7 int ppl_new_Uint32_Box_from_BD_Shape_double (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.159.2.8 int ppl_new_Uint32_Box_from_BD_Shape_double_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.159.2.9 int ppl_new_Uint32_Box_from_BD_Shape_float (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.159.2.10 int ppl_new_Uint32_Box_from_BD_Shape_float_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.159.2.11 int ppl_new_Uint32_Box_from_BD_Shape_int16_t (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.159.2.12 int ppl_new_Uint32_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.159.2.13 int ppl_new_Uint32_Box_from_BD_Shape_int32_t (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.159.2.14 int ppl_new_Uint32_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.159.2.15 int ppl_new_Uint32_Box_from_BD_Shape_int64_t (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.159.2.16 int ppl_new_Uint32_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.159.2.17 int ppl_new_Uint32_Box_from_BD_Shape_int8_t (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.159.2.18 int ppl_new_Uint32_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.159.2.19 int ppl_new_Uint32_Box_from_BD_Shape_long_double (ppl_Uint32_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.159.2.20 int ppl_new_Uint32_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.159.2.21 int ppl_new_Uint32_Box_from_BD_Shape_mpq_class (ppl_Uint32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.159.2.22 int ppl_new_Uint32_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.159.2.23 int ppl_new_Uint32_Box_from_BD_Shape_mpz_class (ppl_Uint32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.159.2.24 int ppl_new_Uint32_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.159.2.25 int ppl_new_Uint32_Box_from_C_Polyhedron (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.159.2.26 int ppl_new_Uint32_Box_from_C_Polyhedron_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.159.2.27 int ppl_new_Uint32_Box_from_Congruence_System (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.159.2.28 int ppl_new_Uint32_Box_from_Constraint_System (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.159.2.29 int ppl_new_Uint32_Box_from_Double_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.159.2.30 int ppl_new_Uint32_Box_from_Double_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.159.2.31 int ppl_new_Uint32_Box_from_Float_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.159.2.32 int ppl_new_Uint32_Box_from_Float_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.159.2.33 int ppl_new_Uint32_Box_from_Generator_System (ppl_Uint32_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.159.2.34 int ppl_new_Uint32_Box_from_Grid (ppl_Uint32_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.159.2.35 int ppl_new_Uint32_Box_from_Grid_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.159.2.36 int ppl_new_Uint32_Box_from_Int16_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.159.2.37 int ppl_new_Uint32_Box_from_Int16_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.159.2.38 int ppl_new_Uint32_Box_from_Int32_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.159.2.39 int ppl_new_Uint32_Box_from_Int32_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.159.2.40 int ppl_new_Uint32_Box_from_Int64_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.159.2.41 int ppl_new_Uint32_Box_from_Int64_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.159.2.42 int ppl_new_Uint32_Box_from_Int8_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.159.2.43 int ppl_new_Uint32_Box_from_Int8_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.159.2.44 int ppl_new_Uint32_Box_from_Long_Double_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.159.2.45 int ppl_new_Uint32_Box_from_Long_Double_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.159.2.46 int ppl_new_Uint32_Box_from_NNC_Polyhedron (ppl_Uint32_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.159.2.47 int ppl_new_Uint32_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.159.2.48 int ppl_new_Uint32_Box_from_Octagonal_Shape_double (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.159.2.49 int ppl_new_Uint32_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.159.2.50 int ppl_new_Uint32_Box_from_Octagonal_Shape_float (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.159.2.51 int ppl_new_Uint32_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.159.2.52 int ppl_new_Uint32_Box_from_Octagonal_Shape_int16_t (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.159.2.53 int ppl_new_Uint32_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.159.2.54 int ppl_new_Uint32_Box_from_Octagonal_Shape_int32_t (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.159.2.55 int ppl_new_Uint32_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.159.2.56 int ppl_new_Uint32_Box_from_Octagonal_Shape_int64_t (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.159.2.57 int ppl_new_Uint32_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.159.2.58 int ppl_new_Uint32_Box_from_Octagonal_Shape_int8_t (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.159.2.59 int ppl_new_Uint32_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.159.2.60 int ppl_new_Uint32_Box_from_Octagonal_Shape_long_double (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.159.2.61 int ppl_new_Uint32_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.159.2.62 int ppl_new_Uint32_Box_from_Octagonal_Shape_mpq_class (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.159.2.63 int ppl_new_Uint32_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.159.2.64 int ppl_new_Uint32_Box_from_Octagonal_Shape_mpz_class (ppl_Uint32_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.159.2.65 int ppl_new_Uint32_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.159.2.66 int ppl_new_Uint32_Box_from_Rational_Box (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.159.2.67 int ppl_new_Uint32_Box_from_Rational_Box_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.159.2.68 int ppl_new_Uint32_Box_from_space_dimension (ppl_Uint32_Box_t ∗ *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.159.2.69 int ppl_new_Uint32_Box_from_Uint16_Box (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.159.2.70 int ppl_new_Uint32_Box_from_Uint16_Box_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.159.2.71 int ppl_new_Uint32_Box_from_Uint32_Box (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.72 int ppl_new_Uint32_Box_from_Uint32_Box_with_complexity (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.159.2.73 int ppl_new_Uint32_Box_from_Uint64_Box (ppl_Uint32_Box_t ∗ *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.159.2.74 int ppl_new_Uint32_Box_from_Uint64_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.159.2.75 int ppl_new_Uint32_Box_from_Uint8_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.159.2.76 int ppl_new_Uint32_Box_from_Uint8_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.159.2.77 int ppl_new_Uint32_Box_from_Z_Box (ppl_Uint32_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.159.2.78 int ppl_new_Uint32_Box_from_Z_Box_with_complexity (ppl_Uint32_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.159.2.79 int ppl_new_Uint32_Box_recycle_Congruence_System (ppl_Uint32_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.159.2.80 int ppl_new_Uint32_Box_recycle_Constraint_System (ppl_Uint32_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.159.2.81 int ppl_new_Uint32_Box_recycle_Generator_System (ppl_Uint32_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.159.2.82 int ppl_one_affine_ranking_function_MS_Uint32_Box (ppl_const_Uint32_Box_t *pset*, ppl_Generator_t *point*) [related]

10.159.2.83 int ppl_one_affine_ranking_function_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.159.2.84 int ppl_one_affine_ranking_function_PR_Uint32_Box (ppl_const_Uint32_Box_t *pset*, ppl_Generator_t *point*) [related]

10.159.2.85 int ppl_one_affine_ranking_function_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.159.2.86 int ppl_termination_test_MS_Uint32_Box (ppl_const_Uint32_Box_t *pset*) [related]

10.159.2.87 int ppl_termination_test_MS_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*) [related]

10.159.2.88 int ppl_termination_test_PR_Uint32_Box (ppl_const_Uint32_Box_t *pset*) [related]

10.159.2.89 int ppl_termination_test_PR_Uint32_Box_2 (ppl_const_Uint32_Box_t *pset_before*, ppl_const_Uint32_Box_t *pset_after*) [related]

10.159.2.90 int ppl_Uint32_Box_add_congruence (ppl_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.159.2.91 int ppl_Uint32_Box_add_congruences (ppl_Uint32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.159.2.92 int ppl_Uint32_Box_add_constraint (ppl_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.159.2.93 int ppl_Uint32_Box_add_constraints (ppl_Uint32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.159.2.94 int ppl_Uint32_Box_add_recycled_congruences (ppl_Uint32_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.159.2.95 int ppl_Uint32_Box_add_recycled_constraints (ppl_Uint32_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.159.2.96 int ppl_Uint32_Box_add_space_dimensions_and_embed (ppl_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.159.2.97 int ppl_Uint32_Box_add_space_dimensions_and_project (ppl_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.159.2.98 int ppl_Uint32_Box_affine_dimension (ppl_const_Uint32_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.159.2.99 int ppl_Uint32_Box_affine_image (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.159.2.100 int ppl_Uint32_Box_affine_preimage (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.159.2.101 int ppl_Uint32_Box_bounded_affine_image (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.159.2.102 int ppl_Uint32_Box_bounded_affine_preimage (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.159.2.103 int ppl_Uint32_Box_bounds_from_above (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.159.2.104 int ppl_Uint32_Box_bounds_from_below (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.159.2.105 int ppl_Uint32_Box_CC76_widening_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.106 int ppl_Uint32_Box_CC76_widening_assign_with_tokens (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*, unsigned * *tp*) [related]

10.159.2.107 int ppl_Uint32_Box_concatenate_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.108 int ppl_Uint32_Box_constrains (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.159.2.109 int ppl_Uint32_Box_contains_integer_point (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.110 int ppl_Uint32_Box_contains_Uint32_Box (ppl_const_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.111 int ppl_Uint32_Box_difference_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.112 int ppl_Uint32_Box_drop_some_non_integer_points (ppl_Uint32_Box_t *ph*, int *complexity*) [related]

10.159.2.113 int ppl_Uint32_Box_drop_some_non_integer_points_2 (ppl_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.159.2.114 int ppl_Uint32_Box_equals_Uint32_Box (ppl_const_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.115 int ppl_Uint32_Box_expand_space_dimension (ppl_Uint32_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.159.2.116 int ppl_Uint32_Box_external_memory_in_bytes (ppl_const_Uint32_Box_t *ps*, size_t ∗ *sz*) [related]

10.159.2.117 int ppl_Uint32_Box_fold_space_dimensions (ppl_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.159.2.118 int ppl_Uint32_Box_frequency (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.159.2.119 int ppl_Uint32_Box_generalized_affine_image (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.159.2.120 int ppl_Uint32_Box_generalized_affine_image_lhs_rhs (ppl_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.159.2.121 int ppl_Uint32_Box_generalized_affine_preimage (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.159.2.122 int ppl_Uint32_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.159.2.123 int ppl_Uint32_Box_get_congruences (ppl_const_Uint32_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.159.2.124 int ppl_Uint32_Box_get_constraints (ppl_const_Uint32_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.159.2.125 int ppl_Uint32_Box_get_minimized_congruences (ppl_const_Uint32_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.159.2.126 int ppl_Uint32_Box_get_minimized_constraints (ppl_const_Uint32_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.159.2.127 int ppl_Uint32_Box_intersection_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.128 int ppl_Uint32_Box_is_bounded (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.129 int ppl_Uint32_Box_is_discrete (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.130 int ppl_Uint32_Box_is_disjoint_from_Uint32_Box (ppl_const_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.131 int ppl_Uint32_Box_is_empty (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.132 int ppl_Uint32_Box_is_topologically_closed (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.133 int ppl_Uint32_Box_is_universe (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.134 int ppl_Uint32_Box_limited_CC76_extrapolation_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.159.2.135 int ppl_Uint32_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.159.2.136 int ppl_Uint32_Box_linear_partition (ppl_const_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*, ppl_Uint32_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.159.2.137 int ppl_Uint32_Box_map_space_dimensions (ppl_Uint32_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.159.2.138 int ppl_Uint32_Box_maximize (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.159.2.139 int ppl_Uint32_Box_maximize_with_point (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.159.2.140 int ppl_Uint32_Box_minimize (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.159.2.141 int ppl_Uint32_Box_minimize_with_point (ppl_const_Uint32_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.159.2.142 int ppl_Uint32_Box_OK (ppl_const_Uint32_Box_t *ph*) [related]

10.159.2.143 int ppl_Uint32_Box_refine_with_congruence (ppl_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.159.2.144 int ppl_Uint32_Box_refine_with_congruences (ppl_Uint32_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.159.2.145 int ppl_Uint32_Box_refine_with_constraint (ppl_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.159.2.146 int ppl_Uint32_Box_refine_with_constraints (ppl_Uint32_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.159.2.147 int ppl_Uint32_Box_relation_with_Congruence (ppl_const_Uint32_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.159.2.148 int ppl_Uint32_Box_relation_with_Constraint (ppl_const_Uint32_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.159.2.149 int ppl_Uint32_Box_relation_with_Generator (ppl_const_Uint32_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.159.2.150 int ppl_Uint32_Box_remove_higher_space_dimensions (ppl_Uint32_Box_t *ph*, ppl_dimension_type *d*) [related]

10.159.2.151 int ppl_Uint32_Box_remove_space_dimensions (ppl_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.159.2.152 int ppl_Uint32_Box_simplify_using_context_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.153 int ppl_Uint32_Box_space_dimension (ppl_const_Uint32_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.159.2.154 int ppl_Uint32_Box_strictly_contains_Uint32_Box (ppl_const_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.155 int ppl_Uint32_Box_time_elapse_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.156 int ppl_Uint32_Box_topological_closure_assign (ppl_Uint32_Box_t *ph*) [related]

10.159.2.157 int ppl_Uint32_Box_total_memory_in_bytes (ppl_const_Uint32_Box_t *ps*, size_t * *sz*) [related]

10.159.2.158 int ppl_Uint32_Box_unconstrain_space_dimension (ppl_Uint32_Box_t *ph*, ppl_dimension_type *var*) [related]

10.159.2.159 int ppl_Uint32_Box_unconstrain_space_dimensions (ppl_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.159.2.160 int ppl_Uint32_Box_upper_bound_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.161 int ppl_Uint32_Box_upper_bound_assign_if_exact (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.162 int ppl_Uint32_Box_widening_assign (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*) [related]

10.159.2.163 int ppl_Uint32_Box_widening_assign_with_tokens (ppl_Uint32_Box_t *x*, ppl_const_Uint32_Box_t *y*, unsigned * *tp*) [related]

10.159.2.164 int ppl_Uint32_Box_wrap_assign (ppl_Uint32_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.160 ppl_Uint64_Box_tag Interface Reference

Types and functions for ppl_Uint64_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Uint64_Box (ppl_const_Uint64_Box_t ph)
- int ppl_new_Uint64_Box_from_space_dimension (ppl_Uint64_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Uint64_Box_from_Int8_Box (ppl_Uint64_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Uint64_Box_from_Int16_Box (ppl_Uint64_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Uint64_Box_from_Int32_Box (ppl_Uint64_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Uint64_Box_from_Int64_Box (ppl_Uint64_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Uint64_Box_from_Uint8_Box (ppl_Uint64_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Uint64_Box_from_Uint16_Box (ppl_Uint64_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Uint64_Box_from_Uint32_Box (ppl_Uint64_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Uint64_Box_from_Uint64_Box (ppl_Uint64_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Uint64_Box_from_Z_Box (ppl_Uint64_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Uint64_Box_from_Rational_Box (ppl_Uint64_Box_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_int8_t (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_int16_t (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_int32_t (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_int64_t (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_mpz_class (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_mpq_class (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int8_t (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int16_t (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int32_t (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int64_t (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_mpz_class (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)

- int ppl_new_Uint64_Box_from_Octagonal_Shape_mpq_class (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Uint64_Box_from_C_Polyhedron (ppl_Uint64_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint64_Box_from_NNC_Polyhedron (ppl_Uint64_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint64_Box_from_Grid (ppl_Uint64_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Uint64_Box_from_Float_Box (ppl_Uint64_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_float (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_float (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Uint64_Box_from_Double_Box (ppl_Uint64_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_double (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_double (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Uint64_Box_from_Long_Double_Box (ppl_Uint64_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Uint64_Box_from_BD_Shape_long_double (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_long_double (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Uint64_Box_from_Int8_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Int16_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Int32_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Int64_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Uint8_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Uint16_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Uint32_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Uint64_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Z_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Rational_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Rational_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph, int complexity)

- int ppl_new_Uint64_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint64_Box_from_C_Polyhedron_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint64_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Grid_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Float_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Float_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_float_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Double_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Double_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_double_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Long_Double_Box_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Uint64_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint64_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint64_Box_from_Constraint_System (ppl_Uint64_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Uint64_Box_from_Congruence_System (ppl_Uint64_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Uint64_Box_from_Generator_System (ppl_Uint64_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Uint64_Box_space_dimension (ppl_const_Uint64_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint64_Box_affine_dimension (ppl_const_Uint64_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint64_Box_relation_with_Constraint (ppl_const_Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint64_Box_relation_with_Generator (ppl_const_Uint64_Box_t ph, ppl_const_Generator_t c)

- int ppl_Uint64_Box_relation_with_Congruence (ppl_const_Uint64_Box_t ph, ppl_const_-Congruence_t c)
- int ppl_Uint64_Box_get_constraints (ppl_const_Uint64_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint64_Box_get_congruences (ppl_const_Uint64_Box_t ph, ppl_const_Congruence_-System_t *pcs)
- int ppl_Uint64_Box_get_minimized_constraints (ppl_const_Uint64_Box_t ph, ppl_const_-Constraint_System_t *pcs)
- int ppl_Uint64_Box_get_minimized_congruences (ppl_const_Uint64_Box_t ph, ppl_const_-Congruence_System_t *pcs)
- int ppl_Uint64_Box_is_empty (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_is_universe (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_is_bounded (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_contains_integer_point (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_is_topologically_closed (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_is_discrete (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_topological_closure_assign (ppl_Uint64_Box_t ph)
- int ppl_Uint64_Box_bounds_from_above (ppl_const_Uint64_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Uint64_Box_bounds_from_below (ppl_const_Uint64_Box_t ph, ppl_const_Linear_-Expression_t le)
- int ppl_Uint64_Box_maximize (ppl_const_Uint64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint64_Box_minimize (ppl_const_Uint64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint64_Box_maximize_with_point (ppl_const_Uint64_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint64_Box_minimize_with_point (ppl_const_Uint64_Box_t ph, ppl_const_Linear_-Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint64_Box_frequency (ppl_const_Uint64_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_-vd)
- int ppl_Uint64_Box_contains_Uint64_Box (ppl_const_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_strictly_contains_Uint64_Box (ppl_const_Uint64_Box_t x, ppl_const_-Uint64_Box_t y)
- int ppl_Uint64_Box_is_disjoint_from_Uint64_Box (ppl_const_Uint64_Box_t x, ppl_const_-Uint64_Box_t y)
- int ppl_Uint64_Box_equals_Uint64_Box (ppl_const_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_OK (ppl_const_Uint64_Box_t ph)
- int ppl_Uint64_Box_add_constraint (ppl_Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint64_Box_add_congruence (ppl_Uint64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint64_Box_add_constraints (ppl_Uint64_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint64_Box_add_congruences (ppl_Uint64_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint64_Box_refine_with_constraint (ppl_Uint64_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint64_Box_refine_with_congruence (ppl_Uint64_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint64_Box_refine_with_constraints (ppl_Uint64_Box_t ph, ppl_const_Constraint_-System_t cs)
- int ppl_Uint64_Box_refine_with_congruences (ppl_Uint64_Box_t ph, ppl_const_Congruence_-System_t cs)

- int ppl_Uint64_Box_intersection_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_upper_bound_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_difference_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_concatenate_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_time_elapse_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_upper_bound_assign_if_exact (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_simplify_using_context_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_constrains (ppl_Uint64_Box_t ph, ppl_dimension_type var)
- int ppl_Uint64_Box_unconstrain_space_dimension (ppl_Uint64_Box_t ph, ppl_dimension_type var)
- int ppl_Uint64_Box_unconstrain_space_dimensions (ppl_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint64_Box_affine_image (ppl_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_affine_preimage (ppl_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_bounded_affine_image (ppl_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_bounded_affine_preimage (ppl_Uint64_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_generalized_affine_image (ppl_Uint64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_generalized_affine_preimage (ppl_Uint64_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint64_Box_generalized_affine_image_lhs_rhs (ppl_Uint64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint64_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint64_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint64_Box_add_space_dimensions_and_embed (ppl_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Uint64_Box_add_space_dimensions_and_project (ppl_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Uint64_Box_remove_space_dimensions (ppl_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint64_Box_remove_higher_space_dimensions (ppl_Uint64_Box_t ph, ppl_dimension_type d)
- int ppl_Uint64_Box_expand_space_dimension (ppl_Uint64_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Uint64_Box_fold_space_dimensions (ppl_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Uint64_Box_map_space_dimensions (ppl_Uint64_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Uint64_Box_drop_some_non_integer_points (ppl_Uint64_Box_t ph, int complexity)
- int ppl_Uint64_Box_drop_some_non_integer_points_2 (ppl_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Uint64_Box_external_memory_in_bytes (ppl_const_Uint64_Box_t ps, size_t *sz)
- int ppl_Uint64_Box_total_memory_in_bytes (ppl_const_Uint64_Box_t ps, size_t *sz)

- int ppl_Uint64_Box_CC76_widening_assign_with_tokens (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y, unsigned *tp)
- int ppl_Uint64_Box_CC76_widening_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_widening_assign_with_tokens (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y, unsigned *tp)
- int ppl_Uint64_Box_widening_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y)
- int ppl_Uint64_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y, ppl_const_Constraint_System_t cs, unsigned *tp)
- int ppl_Uint64_Box_limited_CC76_extrapolation_assign (ppl_Uint64_Box_t x, ppl_const_Uint64_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Uint64_Box_linear_partition (ppl_const_Uint64_Box_t x, ppl_const_Uint64_Box_t y, ppl_Uint64_Box_t *p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t *p_rest)
- int ppl_Uint64_Box_wrap_assign (ppl_Uint64_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Uint64_Box_recycle_Constraint_System (ppl_Uint64_Box_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Uint64_Box_recycle_Congruence_System (ppl_Uint64_Box_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Uint64_Box_recycle_Generator_System (ppl_Uint64_Box_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Uint64_Box_from_Uint64_Box (ppl_Uint64_Box_t dst, ppl_const_Uint64_Box_t src)
- int ppl_Uint64_Box_add_recycled_constraints (ppl_Uint64_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Uint64_Box_add_recycled_congruences (ppl_Uint64_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Uint64_Box (ppl_const_Uint64_Box_t pset)
- int ppl_termination_test_PR_Uint64_Box (ppl_const_Uint64_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Uint64_Box (ppl_const_Uint64_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint64_Box (ppl_const_Uint64_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint64_Box (ppl_const_Uint64_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint64_Box (ppl_const_Uint64_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after)
- int ppl_termination_test_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t pset_before, ppl_const_Uint64_Box_t pset_after, ppl_Polyhedron_t ph)

10.160.1 Detailed Description

Types and functions for ppl_Uint64_Box_tag.

10.160.2 Friends And Related Function Documentation

10.160.2.1 int ppl_all_affine_ranking_functions_MS_Uint64_Box (ppl_const_Uint64_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.160.2.2 int ppl_all_affine_ranking_functions_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.160.2.3 int ppl_all_affine_ranking_functions_PR_Uint64_Box (ppl_const_Uint64_Box_t *pset*, ppl_Polyhedron_t *ph*) [related]

10.160.2.4 int ppl_all_affine_ranking_functions_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.160.2.5 int ppl_assign_Uint64_Box_from_Uint64_Box (ppl_Uint64_Box_t *dst*, ppl_const_Uint64_Box_t *src*) [related]

10.160.2.6 int ppl_delete_Uint64_Box (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.7 int ppl_new_Uint64_Box_from_BD_Shape_double (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.160.2.8 int ppl_new_Uint64_Box_from_BD_Shape_double_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.160.2.9 int ppl_new_Uint64_Box_from_BD_Shape_float (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.160.2.10 int ppl_new_Uint64_Box_from_BD_Shape_float_with_complexity (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.160.2.11 int ppl_new_Uint64_Box_from_BD_Shape_int16_t (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.160.2.12 int ppl_new_Uint64_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.160.2.13 int ppl_new_Uint64_Box_from_BD_Shape_int32_t (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.160.2.14 int ppl_new_Uint64_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.160.2.15 int ppl_new_Uint64_Box_from_BD_Shape_int64_t (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.160.2.16 int ppl_new_Uint64_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.160.2.17 int ppl_new_Uint64_Box_from_BD_Shape_int8_t (ppl_Uint64_Box_t $*$ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.160.2.18 int ppl_new_Uint64_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.160.2.19 int ppl_new_Uint64_Box_from_BD_Shape_long_double (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.160.2.20 int ppl_new_Uint64_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.160.2.21 int ppl_new_Uint64_Box_from_BD_Shape_mpq_class (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.160.2.22 int ppl_new_Uint64_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.160.2.23 int ppl_new_Uint64_Box_from_BD_Shape_mpz_class (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.160.2.24 int ppl_new_Uint64_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.160.2.25 int ppl_new_Uint64_Box_from_C_Polyhedron (ppl_Uint64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.160.2.26 int ppl_new_Uint64_Box_from_C_Polyhedron_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.160.2.27 int ppl_new_Uint64_Box_from_Congruence_System (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.160.2.28 int ppl_new_Uint64_Box_from_Constraint_System (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.160.2.29 int ppl_new_Uint64_Box_from_Double_Box (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*) [related]

10.160.2.30 int ppl_new_Uint64_Box_from_Double_Box_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.160.2.31 int ppl_new_Uint64_Box_from_Float_Box (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Float_Box_t *ph*) [related]

10.160.2.32 int ppl_new_Uint64_Box_from_Float_Box_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.160.2.33 int ppl_new_Uint64_Box_from_Generator_System (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Generator_System_t *cs*) [related]

10.160.2.34 int ppl_new_Uint64_Box_from_Grid (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Grid_t *ph*) [related]

10.160.2.35 int ppl_new_Uint64_Box_from_Grid_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.160.2.36 int ppl_new_Uint64_Box_from_Int16_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.160.2.37 int ppl_new_Uint64_Box_from_Int16_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.160.2.38 int ppl_new_Uint64_Box_from_Int32_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.160.2.39 int ppl_new_Uint64_Box_from_Int32_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.160.2.40 int ppl_new_Uint64_Box_from_Int64_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.160.2.41 int ppl_new_Uint64_Box_from_Int64_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.160.2.42 int ppl_new_Uint64_Box_from_Int8_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.160.2.43 int ppl_new_Uint64_Box_from_Int8_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.160.2.44 int ppl_new_Uint64_Box_from_Long_Double_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.160.2.45 int ppl_new_Uint64_Box_from_Long_Double_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.160.2.46 int ppl_new_Uint64_Box_from_NNC_Polyhedron (ppl_Uint64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.160.2.47 int ppl_new_Uint64_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.160.2.48 int ppl_new_Uint64_Box_from_Octagonal_Shape_double (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.160.2.49 int ppl_new_Uint64_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.160.2.50 int ppl_new_Uint64_Box_from_Octagonal_Shape_float (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.160.2.51 int ppl_new_Uint64_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.160.2.52 int ppl_new_Uint64_Box_from_Octagonal_Shape_int16_t (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.160.2.53 int ppl_new_Uint64_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.160.2.54 int ppl_new_Uint64_Box_from_Octagonal_Shape_int32_t (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.160.2.55 int ppl_new_Uint64_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.160.2.56 int ppl_new_Uint64_Box_from_Octagonal_Shape_int64_t (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.160.2.57 int ppl_new_Uint64_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.160.2.58 int ppl_new_Uint64_Box_from_Octagonal_Shape_int8_t (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.160.2.59 int ppl_new_Uint64_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.160.2.60 int ppl_new_Uint64_Box_from_Octagonal_Shape_long_double (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.160.2.61 int ppl_new_Uint64_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.160.2.62 int ppl_new_Uint64_Box_from_Octagonal_Shape_mpq_class (ppl_Uint64_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.160.2.63 int ppl_new_Uint64_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.160.2.64 int ppl_new_Uint64_Box_from_Octagonal_Shape_mpz_class (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.160.2.65 int ppl_new_Uint64_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.160.2.66 int ppl_new_Uint64_Box_from_Rational_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.160.2.67 int ppl_new_Uint64_Box_from_Rational_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.160.2.68 int ppl_new_Uint64_Box_from_space_dimension (ppl_Uint64_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.160.2.69 int ppl_new_Uint64_Box_from_Uint16_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.160.2.70 int ppl_new_Uint64_Box_from_Uint16_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.160.2.71 int ppl_new_Uint64_Box_from_Uint32_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.160.2.72 int ppl_new_Uint64_Box_from_Uint32_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.160.2.73 int ppl_new_Uint64_Box_from_Uint64_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.74 int ppl_new_Uint64_Box_from_Uint64_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.160.2.75 int ppl_new_Uint64_Box_from_Uint8_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.160.2.76 int ppl_new_Uint64_Box_from_Uint8_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.160.2.77 int ppl_new_Uint64_Box_from_Z_Box (ppl_Uint64_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.160.2.78 int ppl_new_Uint64_Box_from_Z_Box_with_complexity (ppl_Uint64_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.160.2.79 int ppl_new_Uint64_Box_recycle_Congruence_System (ppl_Uint64_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.160.2.80 int ppl_new_Uint64_Box_recycle_Constraint_System (ppl_Uint64_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.160.2.81 int ppl_new_Uint64_Box_recycle_Generator_System (ppl_Uint64_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.160.2.82 int ppl_one_affine_ranking_function_MS_Uint64_Box (ppl_const_Uint64_Box_t *pset*, ppl_Generator_t *point*) [related]

10.160.2.83 int ppl_one_affine_ranking_function_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.160.2.84 int ppl_one_affine_ranking_function_PR_Uint64_Box (ppl_const_Uint64_Box_t *pset*, ppl_Generator_t *point*) [related]

10.160.2.85 int ppl_one_affine_ranking_function_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.160.2.86 int ppl_termination_test_MS_Uint64_Box (ppl_const_Uint64_Box_t *pset*) [related]

10.160.2.87 int ppl_termination_test_MS_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*) [related]

10.160.2.88 int ppl_termination_test_PR_Uint64_Box (ppl_const_Uint64_Box_t *pset*) [related]

10.160.2.89 int ppl_termination_test_PR_Uint64_Box_2 (ppl_const_Uint64_Box_t *pset_before*, ppl_const_Uint64_Box_t *pset_after*) [related]

10.160.2.90 int ppl_Uint64_Box_add_congruence (ppl_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.160.2.91 int ppl_Uint64_Box_add_congruences (ppl_Uint64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.160.2.92 int ppl_Uint64_Box_add_constraint (ppl_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.160.2.93 int ppl_Uint64_Box_add_constraints (ppl_Uint64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.160.2.94 int ppl_Uint64_Box_add_recycled_congruences (ppl_Uint64_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.160.2.95 int ppl_Uint64_Box_add_recycled_constraints (ppl_Uint64_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.160.2.96 int ppl_Uint64_Box_add_space_dimensions_and_embed (ppl_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.160.2.97 int ppl_Uint64_Box_add_space_dimensions_and_project (ppl_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.160.2.98 int ppl_Uint64_Box_affine_dimension (ppl_const_Uint64_Box_t *ph*, ppl_dimension_type $*$ *m*) [related]

10.160.2.99 int ppl_Uint64_Box_affine_image (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.160.2.100 int ppl_Uint64_Box_affine_preimage (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.160.2.101 int ppl_Uint64_Box_bounded_affine_image (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.160.2.102 int ppl_Uint64_Box_bounded_affine_preimage (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.160.2.103 int ppl_Uint64_Box_bounds_from_above (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.160.2.104 int ppl_Uint64_Box_bounds_from_below (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.160.2.105 int ppl_Uint64_Box_CC76_widening_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.106 int ppl_Uint64_Box_CC76_widening_assign_with_tokens (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*, unsigned * *tp*) [related]

10.160.2.107 int ppl_Uint64_Box_concatenate_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.108 int ppl_Uint64_Box_constrains (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.160.2.109 int ppl_Uint64_Box_contains_integer_point (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.110 int ppl_Uint64_Box_contains_Uint64_Box (ppl_const_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.111 int ppl_Uint64_Box_difference_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.112 int ppl_Uint64_Box_drop_some_non_integer_points (ppl_Uint64_Box_t *ph*, int *complexity*) [related]

10.160.2.113 int ppl_Uint64_Box_drop_some_non_integer_points_2 (ppl_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.160.2.114 int ppl_Uint64_Box_equals_Uint64_Box (ppl_const_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.115 int ppl_Uint64_Box_expand_space_dimension (ppl_Uint64_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.160.2.116 int ppl_Uint64_Box_external_memory_in_bytes (ppl_const_Uint64_Box_t *ps*, size_t ∗ *sz*) [related]

10.160.2.117 int ppl_Uint64_Box_fold_space_dimensions (ppl_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.160.2.118 int ppl_Uint64_Box_frequency (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.160.2.119 int ppl_Uint64_Box_generalized_affine_image (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.160.2.120 int ppl_Uint64_Box_generalized_affine_image_lhs_rhs (ppl_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.160.2.121 int ppl_Uint64_Box_generalized_affine_preimage (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.160.2.122 int ppl_Uint64_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.160.2.123 int ppl_Uint64_Box_get_congruences (ppl_const_Uint64_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.160.2.124 int ppl_Uint64_Box_get_constraints (ppl_const_Uint64_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.160.2.125 int ppl_Uint64_Box_get_minimized_congruences (ppl_const_Uint64_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.160.2.126 int ppl_Uint64_Box_get_minimized_constraints (ppl_const_Uint64_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.160.2.127 int ppl_Uint64_Box_intersection_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.128 int ppl_Uint64_Box_is_bounded (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.129 int ppl_Uint64_Box_is_discrete (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.130 int ppl_Uint64_Box_is_disjoint_from_Uint64_Box (ppl_const_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.131 int ppl_Uint64_Box_is_empty (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.132 int ppl_Uint64_Box_is_topologically_closed (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.133 int ppl_Uint64_Box_is_universe (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.134 int ppl_Uint64_Box_limited_CC76_extrapolation_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.160.2.135 int ppl_Uint64_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned ∗ *tp*) [related]

10.160.2.136 int ppl_Uint64_Box_linear_partition (ppl_const_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*, ppl_Uint64_Box_t ∗ *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗ *p_rest*) [related]

10.160.2.137 int ppl_Uint64_Box_map_space_dimensions (ppl_Uint64_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.160.2.138 int ppl_Uint64_Box_maximize (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.160.2.139 int ppl_Uint64_Box_maximize_with_point (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.160.2.140 int ppl_Uint64_Box_minimize (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*) [related]

10.160.2.141 int ppl_Uint64_Box_minimize_with_point (ppl_const_Uint64_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int ∗ *poptimum*, ppl_Generator_t *point*) [related]

10.160.2.142 int ppl_Uint64_Box_OK (ppl_const_Uint64_Box_t *ph*) [related]

10.160.2.143 int ppl_Uint64_Box_refine_with_congruence (ppl_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.160.2.144 int ppl_Uint64_Box_refine_with_congruences (ppl_Uint64_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.160.2.145 int ppl_Uint64_Box_refine_with_constraint (ppl_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.160.2.146 int ppl_Uint64_Box_refine_with_constraints (ppl_Uint64_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.160.2.147 int ppl_Uint64_Box_relation_with_Congruence (ppl_const_Uint64_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.160.2.148 int ppl_Uint64_Box_relation_with_Constraint (ppl_const_Uint64_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.160.2.149 int ppl_Uint64_Box_relation_with_Generator (ppl_const_Uint64_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.160.2.150 int ppl_Uint64_Box_remove_higher_space_dimensions (ppl_Uint64_Box_t *ph*, ppl_dimension_type *d*) [related]

10.160.2.151 int ppl_Uint64_Box_remove_space_dimensions (ppl_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.160.2.152 int ppl_Uint64_Box_simplify_using_context_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.153 int ppl_Uint64_Box_space_dimension (ppl_const_Uint64_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.160.2.154 int ppl_Uint64_Box_strictly_contains_Uint64_Box (ppl_const_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.155 int ppl_Uint64_Box_time_elapse_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.156 int ppl_Uint64_Box_topological_closure_assign (ppl_Uint64_Box_t *ph*) [related]

10.160.2.157 int ppl_Uint64_Box_total_memory_in_bytes (ppl_const_Uint64_Box_t *ps*, size_t ∗ *sz*) [related]

10.160.2.158 int ppl_Uint64_Box_unconstrain_space_dimension (ppl_Uint64_Box_t *ph*, ppl_dimension_type *var*) [related]

10.160.2.159 int ppl_Uint64_Box_unconstrain_space_dimensions (ppl_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.160.2.160 int ppl_Uint64_Box_upper_bound_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.161 int ppl_Uint64_Box_upper_bound_assign_if_exact (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.162 int ppl_Uint64_Box_widening_assign (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*) [related]

10.160.2.163 int ppl_Uint64_Box_widening_assign_with_tokens (ppl_Uint64_Box_t *x*, ppl_const_Uint64_Box_t *y*, unsigned ∗ *tp*) [related]

10.160.2.164 int ppl_Uint64_Box_wrap_assign (ppl_Uint64_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.161 ppl_Uint8_Box_tag Interface Reference

Types and functions for ppl_Uint8_Box_tag.

```
#include <ppl_c.h>
```

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Uint8_Box (ppl_const_Uint8_Box_t ph)
- int ppl_new_Uint8_Box_from_space_dimension (ppl_Uint8_Box_t ∗pph, ppl_dimension_type d, int empty)
- int ppl_new_Uint8_Box_from_Int8_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Uint8_Box_from_Int16_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Uint8_Box_from_Int32_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Uint8_Box_from_Int64_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Uint8_Box_from_Uint8_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Uint8_Box_from_Uint16_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Uint8_Box_from_Uint32_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Uint8_Box_from_Uint64_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Uint8_Box_from_Z_Box (ppl_Uint8_Box_t ∗pph, ppl_const_Z_Box_t ph)

- int ppl_new_Uint8_Box_from_Rational_Box (ppl_Uint8_Box_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_int8_t (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_int16_t (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_int32_t (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_int64_t (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_mpz_class (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_mpq_class (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int8_t (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int16_t (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int32_t (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int64_t (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_mpz_class (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_mpq_class (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Uint8_Box_from_C_Polyhedron (ppl_Uint8_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint8_Box_from_NNC_Polyhedron (ppl_Uint8_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Uint8_Box_from_Grid (ppl_Uint8_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Uint8_Box_from_Float_Box (ppl_Uint8_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_float (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_float (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Uint8_Box_from_Double_Box (ppl_Uint8_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_double (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_double (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Uint8_Box_from_Long_Double_Box (ppl_Uint8_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Uint8_Box_from_BD_Shape_long_double (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_long_double (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Uint8_Box_from_Int8_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Int16_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Int32_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)

- int ppl_new_Uint8_Box_from_Int64_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Int64_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Uint8_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Uint8_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Uint16_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Uint16_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Uint32_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Uint32_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Uint64_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Uint64_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Z_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Z_-Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Rational_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_Rational_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint8_Box_-t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint8_Box_-t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Uint8_Box_from_C_Polyhedron_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint8_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_Polyhedron_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Grid_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Grid_-t ph, int complexity)
- int ppl_new_Uint8_Box_from_Float_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Float_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_float_with_complexity (ppl_Uint8_Box_t *pph, ppl_-const_BD_Shape_float_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Double_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_-Double_Box_t ph, int complexity)

- int ppl_new_Uint8_Box_from_BD_Shape_double_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_double_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Long_Double_Box_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Long_Double_Box_t ph, int complexity)
- int ppl_new_Uint8_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint8_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)
- int ppl_new_Uint8_Box_from_Constraint_System (ppl_Uint8_Box_t *pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Uint8_Box_from_Congruence_System (ppl_Uint8_Box_t *pph, ppl_const_Congruence_System_t cs)
- int ppl_new_Uint8_Box_from_Generator_System (ppl_Uint8_Box_t *pph, ppl_const_Generator_System_t cs)
- int ppl_Uint8_Box_space_dimension (ppl_const_Uint8_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint8_Box_affine_dimension (ppl_const_Uint8_Box_t ph, ppl_dimension_type *m)
- int ppl_Uint8_Box_relation_with_Constraint (ppl_const_Uint8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint8_Box_relation_with_Generator (ppl_const_Uint8_Box_t ph, ppl_const_Generator_t c)
- int ppl_Uint8_Box_relation_with_Congruence (ppl_const_Uint8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint8_Box_get_constraints (ppl_const_Uint8_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint8_Box_get_congruences (ppl_const_Uint8_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint8_Box_get_minimized_constraints (ppl_const_Uint8_Box_t ph, ppl_const_Constraint_System_t *pcs)
- int ppl_Uint8_Box_get_minimized_congruences (ppl_const_Uint8_Box_t ph, ppl_const_Congruence_System_t *pcs)
- int ppl_Uint8_Box_is_empty (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_is_universe (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_is_bounded (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_contains_integer_point (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_is_topologically_closed (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_is_discrete (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_topological_closure_assign (ppl_Uint8_Box_t ph)
- int ppl_Uint8_Box_bounds_from_above (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint8_Box_bounds_from_below (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Uint8_Box_maximize (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint8_Box_minimize (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum)
- int ppl_Uint8_Box_maximize_with_point (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)
- int ppl_Uint8_Box_minimize_with_point (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int *poptimum, ppl_Generator_t point)

- int ppl_Uint8_Box_frequency (ppl_const_Uint8_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Uint8_Box_contains_Uint8_Box (ppl_const_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_strictly_contains_Uint8_Box (ppl_const_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_is_disjoint_from_Uint8_Box (ppl_const_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_equals_Uint8_Box (ppl_const_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_OK (ppl_const_Uint8_Box_t ph)
- int ppl_Uint8_Box_add_constraint (ppl_Uint8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint8_Box_add_congruence (ppl_Uint8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint8_Box_add_constraints (ppl_Uint8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint8_Box_add_congruences (ppl_Uint8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint8_Box_refine_with_constraint (ppl_Uint8_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Uint8_Box_refine_with_congruence (ppl_Uint8_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Uint8_Box_refine_with_constraints (ppl_Uint8_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Uint8_Box_refine_with_congruences (ppl_Uint8_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Uint8_Box_intersection_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_upper_bound_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_difference_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_concatenate_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_time_elapse_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_upper_bound_assign_if_exact (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_simplify_using_context_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_constrains (ppl_Uint8_Box_t ph, ppl_dimension_type var)
- int ppl_Uint8_Box_unconstrain_space_dimension (ppl_Uint8_Box_t ph, ppl_dimension_type var)
- int ppl_Uint8_Box_unconstrain_space_dimensions (ppl_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint8_Box_affine_image (ppl_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_affine_preimage (ppl_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_bounded_affine_image (ppl_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_bounded_affine_preimage (ppl_Uint8_Box_t ph, ppl_dimension_type var, ppl_const_Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_generalized_affine_image (ppl_Uint8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_generalized_affine_preimage (ppl_Uint8_Box_t ph, ppl_dimension_type var, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Uint8_Box_generalized_affine_image_lhs_rhs (ppl_Uint8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint8_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint8_Box_t ph, ppl_const_Linear_Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Uint8_Box_add_space_dimensions_and_embed (ppl_Uint8_Box_t ph, ppl_dimension_type d)
- int ppl_Uint8_Box_add_space_dimensions_and_project (ppl_Uint8_Box_t ph, ppl_dimension_type d)

- int ppl_Uint8_Box_remove_space_dimensions (ppl_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Uint8_Box_remove_higher_space_dimensions (ppl_Uint8_Box_t ph, ppl_dimension_type d)
- int ppl_Uint8_Box_expand_space_dimension (ppl_Uint8_Box_t ph, ppl_dimension_type d, ppl_dimension_type m)
- int ppl_Uint8_Box_fold_space_dimensions (ppl_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_dimension_type d)
- int ppl_Uint8_Box_map_space_dimensions (ppl_Uint8_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Uint8_Box_drop_some_non_integer_points (ppl_Uint8_Box_t ph, int complexity)
- int ppl_Uint8_Box_drop_some_non_integer_points_2 (ppl_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Uint8_Box_external_memory_in_bytes (ppl_const_Uint8_Box_t ps, size_t ∗sz)
- int ppl_Uint8_Box_total_memory_in_bytes (ppl_const_Uint8_Box_t ps, size_t ∗sz)
- int ppl_Uint8_Box_CC76_widening_assign_with_tokens (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y, unsigned ∗tp)
- int ppl_Uint8_Box_CC76_widening_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_widening_assign_with_tokens (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y, unsigned ∗tp)
- int ppl_Uint8_Box_widening_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y)
- int ppl_Uint8_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Uint8_Box_limited_CC76_extrapolation_assign (ppl_Uint8_Box_t x, ppl_const_Uint8_Box_t y, ppl_const_Constraint_System_t cs)
- int ppl_Uint8_Box_linear_partition (ppl_const_Uint8_Box_t x, ppl_const_Uint8_Box_t y, ppl_Uint8_Box_t ∗p_inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)
- int ppl_Uint8_Box_wrap_assign (ppl_Uint8_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t ∗pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Uint8_Box_recycle_Constraint_System (ppl_Uint8_Box_t ∗pph, ppl_Constraint_System_t cs)
- int ppl_new_Uint8_Box_recycle_Congruence_System (ppl_Uint8_Box_t ∗pph, ppl_Congruence_System_t cs)
- int ppl_new_Uint8_Box_recycle_Generator_System (ppl_Uint8_Box_t ∗pph, ppl_Generator_System_t cs)
- int ppl_assign_Uint8_Box_from_Uint8_Box (ppl_Uint8_Box_t dst, ppl_const_Uint8_Box_t src)
- int ppl_Uint8_Box_add_recycled_constraints (ppl_Uint8_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Uint8_Box_add_recycled_congruences (ppl_Uint8_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Uint8_Box (ppl_const_Uint8_Box_t pset)
- int ppl_termination_test_PR_Uint8_Box (ppl_const_Uint8_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Uint8_Box (ppl_const_Uint8_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint8_Box (ppl_const_Uint8_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint8_Box (ppl_const_Uint8_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint8_Box (ppl_const_Uint8_Box_t pset, ppl_Polyhedron_t ph)

- int ppl_termination_test_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after)
- int ppl_termination_test_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t pset_before, ppl_const_Uint8_Box_t pset_after, ppl_Polyhedron_t ph)

10.161.1 Detailed Description

Types and functions for ppl_Uint8_Box_tag.

10.161.2 Friends And Related Function Documentation

10.161.2.1 int ppl_all_affine_ranking_functions_MS_Uint8_Box (ppl_const_Uint8_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.161.2.2 int ppl_all_affine_ranking_functions_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.161.2.3 int ppl_all_affine_ranking_functions_PR_Uint8_Box (ppl_const_Uint8_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.161.2.4 int ppl_all_affine_ranking_functions_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.161.2.5 int ppl_assign_Uint8_Box_from_Uint8_Box (ppl_Uint8_Box_t *dst*, ppl_const_Uint8_Box_t *src*) `[related]`

10.161.2.6 int ppl_delete_Uint8_Box (ppl_const_Uint8_Box_t *ph*) `[related]`

10.161.2.7 int ppl_new_Uint8_Box_from_BD_Shape_double (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.161.2.8 int ppl_new_Uint8_Box_from_BD_Shape_double_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.161.2.9 int ppl_new_Uint8_Box_from_BD_Shape_float (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.161.2.10 int ppl_new_Uint8_Box_from_BD_Shape_float_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.161.2.11 int ppl_new_Uint8_Box_from_BD_Shape_int16_t (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.161.2.12 int ppl_new_Uint8_Box_from_BD_Shape_int16_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.161.2.13 int ppl_new_Uint8_Box_from_BD_Shape_int32_t (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.161.2.14 int ppl_new_Uint8_Box_from_BD_Shape_int32_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.161.2.15 int ppl_new_Uint8_Box_from_BD_Shape_int64_t (ppl_Uint8_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.161.2.16 int ppl_new_Uint8_Box_from_BD_Shape_int64_t_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.161.2.17 int ppl_new_Uint8_Box_from_BD_Shape_int8_t (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.161.2.18 int ppl_new_Uint8_Box_from_BD_Shape_int8_t_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.161.2.19 int ppl_new_Uint8_Box_from_BD_Shape_long_double (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.161.2.20 int ppl_new_Uint8_Box_from_BD_Shape_long_double_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.161.2.21 int ppl_new_Uint8_Box_from_BD_Shape_mpq_class (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.161.2.22 int ppl_new_Uint8_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.161.2.23 int ppl_new_Uint8_Box_from_BD_Shape_mpz_class (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.161.2.24 int ppl_new_Uint8_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.161.2.25 int ppl_new_Uint8_Box_from_C_Polyhedron (ppl_Uint8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.161.2.26 int ppl_new_Uint8_Box_from_C_Polyhedron_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.161.2.27 int ppl_new_Uint8_Box_from_Congruence_System (ppl_Uint8_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.161.2.28 int ppl_new_Uint8_Box_from_Constraint_System (ppl_Uint8_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.161.2.29 int ppl_new_Uint8_Box_from_Double_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.161.2.30 int ppl_new_Uint8_Box_from_Double_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.161.2.31 int ppl_new_Uint8_Box_from_Float_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.161.2.32 int ppl_new_Uint8_Box_from_Float_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.161.2.33 int ppl_new_Uint8_Box_from_Generator_System (ppl_Uint8_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.161.2.34 int ppl_new_Uint8_Box_from_Grid (ppl_Uint8_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.161.2.35 int ppl_new_Uint8_Box_from_Grid_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.161.2.36 int ppl_new_Uint8_Box_from_Int16_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.161.2.37 int ppl_new_Uint8_Box_from_Int16_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.161.2.38 int ppl_new_Uint8_Box_from_Int32_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.161.2.39 int ppl_new_Uint8_Box_from_Int32_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.161.2.40 int ppl_new_Uint8_Box_from_Int64_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.161.2.41 int ppl_new_Uint8_Box_from_Int64_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.161.2.42 int ppl_new_Uint8_Box_from_Int8_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.161.2.43 int ppl_new_Uint8_Box_from_Int8_Box_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.161.2.44 int ppl_new_Uint8_Box_from_Long_Double_Box (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.161.2.45 int ppl_new_Uint8_Box_from_Long_Double_Box_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.161.2.46 int ppl_new_Uint8_Box_from_NNC_Polyhedron (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.161.2.47 int ppl_new_Uint8_Box_from_NNC_Polyhedron_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.161.2.48 int ppl_new_Uint8_Box_from_Octagonal_Shape_double (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.161.2.49 int ppl_new_Uint8_Box_from_Octagonal_Shape_double_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.161.2.50 int ppl_new_Uint8_Box_from_Octagonal_Shape_float (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.161.2.51 int ppl_new_Uint8_Box_from_Octagonal_Shape_float_with_complexity (ppl_Uint8_Box_t ∗ *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.161.2.52 int ppl_new_Uint8_Box_from_Octagonal_Shape_int16_t (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.161.2.53 int ppl_new_Uint8_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.161.2.54 int ppl_new_Uint8_Box_from_Octagonal_Shape_int32_t (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.161.2.55 int ppl_new_Uint8_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.161.2.56 int ppl_new_Uint8_Box_from_Octagonal_Shape_int64_t (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.161.2.57 int ppl_new_Uint8_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.161.2.58 int ppl_new_Uint8_Box_from_Octagonal_Shape_int8_t (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.161.2.59 int ppl_new_Uint8_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.161.2.60 int ppl_new_Uint8_Box_from_Octagonal_Shape_long_double (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.161.2.61 int ppl_new_Uint8_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.161.2.62 int ppl_new_Uint8_Box_from_Octagonal_Shape_mpq_class (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.161.2.63 int ppl_new_Uint8_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.161.2.64 int ppl_new_Uint8_Box_from_Octagonal_Shape_mpz_class (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.161.2.65 int ppl_new_Uint8_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.161.2.66 int ppl_new_Uint8_Box_from_Rational_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.161.2.67 int ppl_new_Uint8_Box_from_Rational_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.161.2.68 int ppl_new_Uint8_Box_from_space_dimension (ppl_Uint8_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.161.2.69 int ppl_new_Uint8_Box_from_Uint16_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.161.2.70 int ppl_new_Uint8_Box_from_Uint16_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.161.2.71 int ppl_new_Uint8_Box_from_Uint32_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.161.2.72 int ppl_new_Uint8_Box_from_Uint32_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.161.2.73 int ppl_new_Uint8_Box_from_Uint64_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.161.2.74 int ppl_new_Uint8_Box_from_Uint64_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.161.2.75 int ppl_new_Uint8_Box_from_Uint8_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.76 int ppl_new_Uint8_Box_from_Uint8_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.161.2.77 int ppl_new_Uint8_Box_from_Z_Box (ppl_Uint8_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.161.2.78 int ppl_new_Uint8_Box_from_Z_Box_with_complexity (ppl_Uint8_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.161.2.79 int ppl_new_Uint8_Box_recycle_Congruence_System (ppl_Uint8_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.161.2.80 int ppl_new_Uint8_Box_recycle_Constraint_System (ppl_Uint8_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.161.2.81 int ppl_new_Uint8_Box_recycle_Generator_System (ppl_Uint8_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.161.2.82 int ppl_one_affine_ranking_function_MS_Uint8_Box (ppl_const_Uint8_Box_t *pset*, ppl_Generator_t *point*) [related]

10.161.2.83 int ppl_one_affine_ranking_function_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.161.2.84 int ppl_one_affine_ranking_function_PR_Uint8_Box (ppl_const_Uint8_Box_t *pset*, ppl_Generator_t *point*) [related]

10.161.2.85 int ppl_one_affine_ranking_function_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.161.2.86 int ppl_termination_test_MS_Uint8_Box (ppl_const_Uint8_Box_t *pset*) [related]

10.161.2.87 int ppl_termination_test_MS_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*) [related]

10.161.2.88 int ppl_termination_test_PR_Uint8_Box (ppl_const_Uint8_Box_t *pset*) [related]

10.161.2.89 int ppl_termination_test_PR_Uint8_Box_2 (ppl_const_Uint8_Box_t *pset_before*, ppl_const_Uint8_Box_t *pset_after*) [related]

10.161.2.90 int ppl_Uint8_Box_add_congruence (ppl_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.161.2.91 int ppl_Uint8_Box_add_congruences (ppl_Uint8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.161.2.92 int ppl_Uint8_Box_add_constraint (ppl_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.161.2.93 int ppl_Uint8_Box_add_constraints (ppl_Uint8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.161.2.94 int ppl_Uint8_Box_add_recycled_congruences (ppl_Uint8_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.161.2.95 int ppl_Uint8_Box_add_recycled_constraints (ppl_Uint8_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.161.2.96 int ppl_Uint8_Box_add_space_dimensions_and_embed (ppl_Uint8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.161.2.97 int ppl_Uint8_Box_add_space_dimensions_and_project (ppl_Uint8_Box_t *ph*, ppl_dimension_type *d*) [related]

10.161.2.98 int ppl_Uint8_Box_affine_dimension (ppl_const_Uint8_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.161.2.99 int ppl_Uint8_Box_affine_image (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.161.2.100 int ppl_Uint8_Box_affine_preimage (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.161.2.101 int ppl_Uint8_Box_bounded_affine_image (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.161.2.102 int ppl_Uint8_Box_bounded_affine_preimage (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.161.2.103 int ppl_Uint8_Box_bounds_from_above (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.161.2.104 int ppl_Uint8_Box_bounds_from_below (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.161.2.105 int ppl_Uint8_Box_CC76_widening_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.106 int ppl_Uint8_Box_CC76_widening_assign_with_tokens (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*, unsigned ∗ *tp*) [related]

10.161.2.107 int ppl_Uint8_Box_concatenate_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.108 int ppl_Uint8_Box_constrains (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.161.2.109 int ppl_Uint8_Box_contains_integer_point (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.110 int ppl_Uint8_Box_contains_Uint8_Box (ppl_const_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.111 int ppl_Uint8_Box_difference_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.112 int ppl_Uint8_Box_drop_some_non_integer_points (ppl_Uint8_Box_t *ph*, int *complexity*) [related]

10.161.2.113 int ppl_Uint8_Box_drop_some_non_integer_points_2 (ppl_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.161.2.114 int ppl_Uint8_Box_equals_Uint8_Box (ppl_const_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.115 int ppl_Uint8_Box_expand_space_dimension (ppl_Uint8_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.161.2.116 int ppl_Uint8_Box_external_memory_in_bytes (ppl_const_Uint8_Box_t *ps*, size_t ∗ *sz*) [related]

10.161.2.117 int ppl_Uint8_Box_fold_space_dimensions (ppl_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.161.2.118 int ppl_Uint8_Box_frequency (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.161.2.119 int ppl_Uint8_Box_generalized_affine_image (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.161.2.120 int ppl_Uint8_Box_generalized_affine_image_lhs_rhs (ppl_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.161.2.121 int ppl_Uint8_Box_generalized_affine_preimage (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.161.2.122 int ppl_Uint8_Box_generalized_affine_preimage_lhs_rhs (ppl_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.161.2.123 int ppl_Uint8_Box_get_congruences (ppl_const_Uint8_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.161.2.124 int ppl_Uint8_Box_get_constraints (ppl_const_Uint8_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.161.2.125 int ppl_Uint8_Box_get_minimized_congruences (ppl_const_Uint8_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.161.2.126 int ppl_Uint8_Box_get_minimized_constraints (ppl_const_Uint8_Box_t *ph*, ppl_const_Constraint_System_t * *pcs*) [related]

10.161.2.127 int ppl_Uint8_Box_intersection_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.128 int ppl_Uint8_Box_is_bounded (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.129 int ppl_Uint8_Box_is_discrete (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.130 int ppl_Uint8_Box_is_disjoint_from_Uint8_Box (ppl_const_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.131 int ppl_Uint8_Box_is_empty (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.132 int ppl_Uint8_Box_is_topologically_closed (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.133 int ppl_Uint8_Box_is_universe (ppl_const_Uint8_Box_t *ph*) [related]

10.161.2.134 int ppl_Uint8_Box_limited_CC76_extrapolation_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.161.2.135 int ppl_Uint8_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.161.2.136 int ppl_Uint8_Box_linear_partition (ppl_const_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*, ppl_Uint8_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.161.2.137 int ppl_Uint8_Box_map_space_dimensions (ppl_Uint8_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.161.2.138 int ppl_Uint8_Box_maximize (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.161.2.139 int ppl_Uint8_Box_maximize_with_point (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.161.2.140 int ppl_Uint8_Box_minimize (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.161.2.141 int ppl_Uint8_Box_minimize_with_point (ppl_const_Uint8_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.161.2.142 int ppl_Uint8_Box_OK (ppl_const_Uint8_Box_t *ph*) `[related]`

10.161.2.143 int ppl_Uint8_Box_refine_with_congruence (ppl_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.161.2.144 int ppl_Uint8_Box_refine_with_congruences (ppl_Uint8_Box_t *ph*, ppl_const_Congruence_System_t *cs*) `[related]`

10.161.2.145 int ppl_Uint8_Box_refine_with_constraint (ppl_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.161.2.146 int ppl_Uint8_Box_refine_with_constraints (ppl_Uint8_Box_t *ph*, ppl_const_Constraint_System_t *cs*) `[related]`

10.161.2.147 int ppl_Uint8_Box_relation_with_Congruence (ppl_const_Uint8_Box_t *ph*, ppl_const_Congruence_t *c*) `[related]`

10.161.2.148 int ppl_Uint8_Box_relation_with_Constraint (ppl_const_Uint8_Box_t *ph*, ppl_const_Constraint_t *c*) `[related]`

10.161.2.149 int ppl_Uint8_Box_relation_with_Generator (ppl_const_Uint8_Box_t *ph*, ppl_const_Generator_t *c*) `[related]`

10.161.2.150 int ppl_Uint8_Box_remove_higher_space_dimensions (ppl_Uint8_Box_t *ph*, ppl_dimension_type *d*) `[related]`

10.161.2.151 int ppl_Uint8_Box_remove_space_dimensions (ppl_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) `[related]`

10.161.2.152 int ppl_Uint8_Box_simplify_using_context_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.153 int ppl_Uint8_Box_space_dimension (ppl_const_Uint8_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.161.2.154 int ppl_Uint8_Box_strictly_contains_Uint8_Box (ppl_const_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.155 int ppl_Uint8_Box_time_elapse_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.156 int ppl_Uint8_Box_topological_closure_assign (ppl_Uint8_Box_t *ph*) [related]

10.161.2.157 int ppl_Uint8_Box_total_memory_in_bytes (ppl_const_Uint8_Box_t *ps*, size_t * *sz*) [related]

10.161.2.158 int ppl_Uint8_Box_unconstrain_space_dimension (ppl_Uint8_Box_t *ph*, ppl_dimension_type *var*) [related]

10.161.2.159 int ppl_Uint8_Box_unconstrain_space_dimensions (ppl_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.161.2.160 int ppl_Uint8_Box_upper_bound_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.161 int ppl_Uint8_Box_upper_bound_assign_if_exact (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.162 int ppl_Uint8_Box_widening_assign (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*) [related]

10.161.2.163 int ppl_Uint8_Box_widening_assign_with_tokens (ppl_Uint8_Box_t *x*, ppl_const_Uint8_Box_t *y*, unsigned * *tp*) [related]

10.161.2.164 int ppl_Uint8_Box_wrap_assign (ppl_Uint8_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t * *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.162 ppl_Z_Box_tag Interface Reference

Types and functions for ppl_Z_Box_tag.

`#include <ppl_c.h>`

Related Functions

(Note that these are not member functions.)

- int ppl_delete_Z_Box (ppl_const_Z_Box_t ph)
- int ppl_new_Z_Box_from_space_dimension (ppl_Z_Box_t *pph, ppl_dimension_type d, int empty)
- int ppl_new_Z_Box_from_Int8_Box (ppl_Z_Box_t *pph, ppl_const_Int8_Box_t ph)
- int ppl_new_Z_Box_from_Int16_Box (ppl_Z_Box_t *pph, ppl_const_Int16_Box_t ph)
- int ppl_new_Z_Box_from_Int32_Box (ppl_Z_Box_t *pph, ppl_const_Int32_Box_t ph)
- int ppl_new_Z_Box_from_Int64_Box (ppl_Z_Box_t *pph, ppl_const_Int64_Box_t ph)
- int ppl_new_Z_Box_from_Uint8_Box (ppl_Z_Box_t *pph, ppl_const_Uint8_Box_t ph)
- int ppl_new_Z_Box_from_Uint16_Box (ppl_Z_Box_t *pph, ppl_const_Uint16_Box_t ph)
- int ppl_new_Z_Box_from_Uint32_Box (ppl_Z_Box_t *pph, ppl_const_Uint32_Box_t ph)
- int ppl_new_Z_Box_from_Uint64_Box (ppl_Z_Box_t *pph, ppl_const_Uint64_Box_t ph)
- int ppl_new_Z_Box_from_Z_Box (ppl_Z_Box_t *pph, ppl_const_Z_Box_t ph)
- int ppl_new_Z_Box_from_Rational_Box (ppl_Z_Box_t *pph, ppl_const_Rational_Box_t ph)
- int ppl_new_Z_Box_from_BD_Shape_int8_t (ppl_Z_Box_t *pph, ppl_const_BD_Shape_int8_t_t ph)
- int ppl_new_Z_Box_from_BD_Shape_int16_t (ppl_Z_Box_t *pph, ppl_const_BD_Shape_int16_t_t ph)
- int ppl_new_Z_Box_from_BD_Shape_int32_t (ppl_Z_Box_t *pph, ppl_const_BD_Shape_int32_t_t ph)

- int ppl_new_Z_Box_from_BD_Shape_int64_t (ppl_Z_Box_t *pph, ppl_const_BD_Shape_int64_t_t ph)
- int ppl_new_Z_Box_from_BD_Shape_mpz_class (ppl_Z_Box_t *pph, ppl_const_BD_Shape_mpz_class_t ph)
- int ppl_new_Z_Box_from_BD_Shape_mpq_class (ppl_Z_Box_t *pph, ppl_const_BD_Shape_mpq_class_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_int8_t (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_int8_t_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_int16_t (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_int16_t_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_int32_t (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_int32_t_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_int64_t (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_int64_t_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_mpz_class (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_mpq_class (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph)
- int ppl_new_Z_Box_from_C_Polyhedron (ppl_Z_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Z_Box_from_NNC_Polyhedron (ppl_Z_Box_t *pph, ppl_const_Polyhedron_t ph)
- int ppl_new_Z_Box_from_Grid (ppl_Z_Box_t *pph, ppl_const_Grid_t ph)
- int ppl_new_Z_Box_from_Float_Box (ppl_Z_Box_t *pph, ppl_const_Float_Box_t ph)
- int ppl_new_Z_Box_from_BD_Shape_float (ppl_Z_Box_t *pph, ppl_const_BD_Shape_float_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_float (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_float_t ph)
- int ppl_new_Z_Box_from_Double_Box (ppl_Z_Box_t *pph, ppl_const_Double_Box_t ph)
- int ppl_new_Z_Box_from_BD_Shape_double (ppl_Z_Box_t *pph, ppl_const_BD_Shape_double_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_double (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_double_t ph)
- int ppl_new_Z_Box_from_Long_Double_Box (ppl_Z_Box_t *pph, ppl_const_Long_Double_Box_t ph)
- int ppl_new_Z_Box_from_BD_Shape_long_double (ppl_Z_Box_t *pph, ppl_const_BD_Shape_long_double_t ph)
- int ppl_new_Z_Box_from_Octagonal_Shape_long_double (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph)
- int ppl_new_Z_Box_from_Int8_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Int8_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Int16_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Int16_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Int32_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Int32_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Int64_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Int64_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Uint8_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Uint8_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Uint16_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Uint16_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Uint32_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Uint32_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Uint64_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Uint64_Box_t ph, int complexity)

- int ppl_new_Z_Box_from_Z_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Z_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_Rational_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_-Rational_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_int8_t_with_complexity (ppl_Z_Box_t *pph, ppl_const_-BD_Shape_int8_t_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_int16_t_with_complexity (ppl_Z_Box_t *pph, ppl_const_-BD_Shape_int16_t_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_int32_t_with_complexity (ppl_Z_Box_t *pph, ppl_const_-BD_Shape_int32_t_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_int64_t_with_complexity (ppl_Z_Box_t *pph, ppl_const_-BD_Shape_int64_t_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Z_Box_t *pph, ppl_-const_BD_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Z_Box_t *pph, ppl_-const_BD_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_int8_t_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_int16_t_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_int32_t_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_int64_t_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_mpz_class_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_mpq_class_t ph, int complexity)
- int ppl_new_Z_Box_from_C_Polyhedron_with_complexity (ppl_Z_Box_t *pph, ppl_const_-Polyhedron_t ph, int complexity)
- int ppl_new_Z_Box_from_NNC_Polyhedron_with_complexity (ppl_Z_Box_t *pph, ppl_const_-Polyhedron_t ph, int complexity)
- int ppl_new_Z_Box_from_Grid_with_complexity (ppl_Z_Box_t *pph, ppl_const_Grid_t ph, int complexity)
- int ppl_new_Z_Box_from_Float_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Float_-Box_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_float_with_complexity (ppl_Z_Box_t *pph, ppl_const_BD_-Shape_float_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_float_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_float_t ph, int complexity)
- int ppl_new_Z_Box_from_Double_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_Double_-Box_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_double_with_complexity (ppl_Z_Box_t *pph, ppl_const_-BD_Shape_double_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_double_with_complexity (ppl_Z_Box_t *pph, ppl_-const_Octagonal_Shape_double_t ph, int complexity)
- int ppl_new_Z_Box_from_Long_Double_Box_with_complexity (ppl_Z_Box_t *pph, ppl_const_-Long_Double_Box_t ph, int complexity)
- int ppl_new_Z_Box_from_BD_Shape_long_double_with_complexity (ppl_Z_Box_t *pph, ppl_-const_BD_Shape_long_double_t ph, int complexity)
- int ppl_new_Z_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Z_Box_t *pph, ppl_const_Octagonal_Shape_long_double_t ph, int complexity)

- int ppl_new_Z_Box_from_Constraint_System (ppl_Z_Box_t ∗pph, ppl_const_Constraint_System_t cs)
- int ppl_new_Z_Box_from_Congruence_System (ppl_Z_Box_t ∗pph, ppl_const_Congruence_-System_t cs)
- int ppl_new_Z_Box_from_Generator_System (ppl_Z_Box_t ∗pph, ppl_const_Generator_System_t cs)
- int ppl_Z_Box_space_dimension (ppl_const_Z_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Z_Box_affine_dimension (ppl_const_Z_Box_t ph, ppl_dimension_type ∗m)
- int ppl_Z_Box_relation_with_Constraint (ppl_const_Z_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Z_Box_relation_with_Generator (ppl_const_Z_Box_t ph, ppl_const_Generator_t c)
- int ppl_Z_Box_relation_with_Congruence (ppl_const_Z_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Z_Box_get_constraints (ppl_const_Z_Box_t ph, ppl_const_Constraint_System_t ∗pcs)
- int ppl_Z_Box_get_congruences (ppl_const_Z_Box_t ph, ppl_const_Congruence_System_t ∗pcs)
- int ppl_Z_Box_get_minimized_constraints (ppl_const_Z_Box_t ph, ppl_const_Constraint_-System_t ∗pcs)
- int ppl_Z_Box_get_minimized_congruences (ppl_const_Z_Box_t ph, ppl_const_Congruence_-System_t ∗pcs)
- int ppl_Z_Box_is_empty (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_is_universe (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_is_bounded (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_contains_integer_point (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_is_topologically_closed (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_is_discrete (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_topological_closure_assign (ppl_Z_Box_t ph)
- int ppl_Z_Box_bounds_from_above (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Z_Box_bounds_from_below (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le)
- int ppl_Z_Box_maximize (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Z_Box_minimize (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum)
- int ppl_Z_Box_maximize_with_point (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Z_Box_minimize_with_point (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le, ppl_Coefficient_t ext_n, ppl_Coefficient_t ext_d, int ∗poptimum, ppl_Generator_t point)
- int ppl_Z_Box_frequency (ppl_const_Z_Box_t ph, ppl_const_Linear_Expression_t le, ppl_-Coefficient_t ext_fn, ppl_Coefficient_t ext_fd, ppl_Coefficient_t ext_vn, ppl_Coefficient_t ext_vd)
- int ppl_Z_Box_contains_Z_Box (ppl_const_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_strictly_contains_Z_Box (ppl_const_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_is_disjoint_from_Z_Box (ppl_const_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_equals_Z_Box (ppl_const_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_OK (ppl_const_Z_Box_t ph)
- int ppl_Z_Box_add_constraint (ppl_Z_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Z_Box_add_congruence (ppl_Z_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Z_Box_add_constraints (ppl_Z_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Z_Box_add_congruences (ppl_Z_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Z_Box_refine_with_constraint (ppl_Z_Box_t ph, ppl_const_Constraint_t c)
- int ppl_Z_Box_refine_with_congruence (ppl_Z_Box_t ph, ppl_const_Congruence_t c)
- int ppl_Z_Box_refine_with_constraints (ppl_Z_Box_t ph, ppl_const_Constraint_System_t cs)
- int ppl_Z_Box_refine_with_congruences (ppl_Z_Box_t ph, ppl_const_Congruence_System_t cs)
- int ppl_Z_Box_intersection_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_upper_bound_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)

- int ppl_Z_Box_difference_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_concatenate_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_time_elapse_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_upper_bound_assign_if_exact (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_simplify_using_context_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_constrains (ppl_Z_Box_t ph, ppl_dimension_type var)
- int ppl_Z_Box_unconstrain_space_dimension (ppl_Z_Box_t ph, ppl_dimension_type var)
- int ppl_Z_Box_unconstrain_space_dimensions (ppl_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Z_Box_affine_image (ppl_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Z_Box_affine_preimage (ppl_Z_Box_t ph, ppl_dimension_type var, ppl_const_Linear_-Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Z_Box_bounded_affine_image (ppl_Z_Box_t ph, ppl_dimension_type var, ppl_const_-Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Z_Box_bounded_affine_preimage (ppl_Z_Box_t ph, ppl_dimension_type var, ppl_const_-Linear_Expression_t lb, ppl_const_Linear_Expression_t ub, ppl_const_Coefficient_t d)
- int ppl_Z_Box_generalized_affine_image (ppl_Z_Box_t ph, ppl_dimension_type var, enum ppl_-enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Z_Box_generalized_affine_preimage (ppl_Z_Box_t ph, ppl_dimension_type var, enum ppl_-enum_Constraint_Type relsym, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t d)
- int ppl_Z_Box_generalized_affine_image_lhs_rhs (ppl_Z_Box_t ph, ppl_const_Linear_-Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Z_Box_generalized_affine_preimage_lhs_rhs (ppl_Z_Box_t ph, ppl_const_Linear_-Expression_t lhs, enum ppl_enum_Constraint_Type relsym, ppl_const_Linear_Expression_t rhs)
- int ppl_Z_Box_add_space_dimensions_and_embed (ppl_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Z_Box_add_space_dimensions_and_project (ppl_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Z_Box_remove_space_dimensions (ppl_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n)
- int ppl_Z_Box_remove_higher_space_dimensions (ppl_Z_Box_t ph, ppl_dimension_type d)
- int ppl_Z_Box_expand_space_dimension (ppl_Z_Box_t ph, ppl_dimension_type d, ppl_-dimension_type m)
- int ppl_Z_Box_fold_space_dimensions (ppl_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n, ppl_-dimension_type d)
- int ppl_Z_Box_map_space_dimensions (ppl_Z_Box_t ph, ppl_dimension_type maps[ ], size_t n)
- int ppl_Z_Box_drop_some_non_integer_points (ppl_Z_Box_t ph, int complexity)
- int ppl_Z_Box_drop_some_non_integer_points_2 (ppl_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n, int complexity)
- int ppl_Z_Box_external_memory_in_bytes (ppl_const_Z_Box_t ps, size_t ∗sz)
- int ppl_Z_Box_total_memory_in_bytes (ppl_const_Z_Box_t ps, size_t ∗sz)
- int ppl_Z_Box_CC76_widening_assign_with_tokens (ppl_Z_Box_t x, ppl_const_Z_Box_t y, unsigned ∗tp)
- int ppl_Z_Box_CC76_widening_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_widening_assign_with_tokens (ppl_Z_Box_t x, ppl_const_Z_Box_t y, unsigned ∗tp)
- int ppl_Z_Box_widening_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y)
- int ppl_Z_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Z_Box_t x, ppl_const_Z_-Box_t y, ppl_const_Constraint_System_t cs, unsigned ∗tp)
- int ppl_Z_Box_limited_CC76_extrapolation_assign (ppl_Z_Box_t x, ppl_const_Z_Box_t y, ppl_-const_Constraint_System_t cs)
- int ppl_Z_Box_linear_partition (ppl_const_Z_Box_t x, ppl_const_Z_Box_t y, ppl_Z_Box_t ∗p_-inters, ppl_Pointset_Powerset_NNC_Polyhedron_t ∗p_rest)

- int ppl_Z_Box_wrap_assign (ppl_Z_Box_t ph, ppl_dimension_type ds[ ], size_t n, enum ppl_enum_Bounded_Integer_Type_Width w, enum ppl_enum_Bounded_Integer_Type_Representation r, enum ppl_enum_Bounded_Integer_Type_Overflow o, const ppl_const_Constraint_System_t *pcs, unsigned complexity_threshold, int wrap_individually)
- int ppl_new_Z_Box_recycle_Constraint_System (ppl_Z_Box_t *pph, ppl_Constraint_System_t cs)
- int ppl_new_Z_Box_recycle_Congruence_System (ppl_Z_Box_t *pph, ppl_Congruence_System_t cs)
- int ppl_new_Z_Box_recycle_Generator_System (ppl_Z_Box_t *pph, ppl_Generator_System_t cs)
- int ppl_assign_Z_Box_from_Z_Box (ppl_Z_Box_t dst, ppl_const_Z_Box_t src)
- int ppl_Z_Box_add_recycled_constraints (ppl_Z_Box_t ph, ppl_Constraint_System_t cs)
- int ppl_Z_Box_add_recycled_congruences (ppl_Z_Box_t ph, ppl_Congruence_System_t cs)
- int ppl_termination_test_MS_Z_Box (ppl_const_Z_Box_t pset)
- int ppl_termination_test_PR_Z_Box (ppl_const_Z_Box_t pset)
- int ppl_one_affine_ranking_function_MS_Z_Box (ppl_const_Z_Box_t pset, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Z_Box (ppl_const_Z_Box_t pset, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Z_Box (ppl_const_Z_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Z_Box (ppl_const_Z_Box_t pset, ppl_Polyhedron_t ph)
- int ppl_termination_test_MS_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after)
- int ppl_termination_test_PR_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after)
- int ppl_one_affine_ranking_function_MS_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after, ppl_Generator_t point)
- int ppl_one_affine_ranking_function_PR_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after, ppl_Generator_t point)
- int ppl_all_affine_ranking_functions_MS_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after, ppl_Polyhedron_t ph)
- int ppl_all_affine_ranking_functions_PR_Z_Box_2 (ppl_const_Z_Box_t pset_before, ppl_const_Z_Box_t pset_after, ppl_Polyhedron_t ph)

10.162.1 Detailed Description

Types and functions for ppl_Z_Box_tag.

10.162.2 Friends And Related Function Documentation

10.162.2.1 int ppl_all_affine_ranking_functions_MS_Z_Box (ppl_const_Z_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.162.2.2 int ppl_all_affine_ranking_functions_MS_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*, ppl_Polyhedron_t *ph*) `[related]`

10.162.2.3 int ppl_all_affine_ranking_functions_PR_Z_Box (ppl_const_Z_Box_t *pset*, ppl_Polyhedron_t *ph*) `[related]`

10.162.2.4 int ppl_all_affine_ranking_functions_PR_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*, ppl_Polyhedron_t *ph*) [related]

10.162.2.5 int ppl_assign_Z_Box_from_Z_Box (ppl_Z_Box_t *dst*, ppl_const_Z_Box_t *src*) [related]

10.162.2.6 int ppl_delete_Z_Box (ppl_const_Z_Box_t *ph*) [related]

10.162.2.7 int ppl_new_Z_Box_from_BD_Shape_double (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*) [related]

10.162.2.8 int ppl_new_Z_Box_from_BD_Shape_double_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_double_t *ph*, int *complexity*) [related]

10.162.2.9 int ppl_new_Z_Box_from_BD_Shape_float (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*) [related]

10.162.2.10 int ppl_new_Z_Box_from_BD_Shape_float_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_float_t *ph*, int *complexity*) [related]

10.162.2.11 int ppl_new_Z_Box_from_BD_Shape_int16_t (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*) [related]

10.162.2.12 int ppl_new_Z_Box_from_BD_Shape_int16_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int16_t_t *ph*, int *complexity*) [related]

10.162.2.13 int ppl_new_Z_Box_from_BD_Shape_int32_t (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*) [related]

10.162.2.14 int ppl_new_Z_Box_from_BD_Shape_int32_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int32_t_t *ph*, int *complexity*) [related]

10.162.2.15 int ppl_new_Z_Box_from_BD_Shape_int64_t (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*) [related]

10.162.2.16 int ppl_new_Z_Box_from_BD_Shape_int64_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int64_t_t *ph*, int *complexity*) [related]

10.162.2.17 int ppl_new_Z_Box_from_BD_Shape_int8_t (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*) [related]

10.162.2.18 int ppl_new_Z_Box_from_BD_Shape_int8_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_int8_t_t *ph*, int *complexity*) [related]

10.162.2.19 int ppl_new_Z_Box_from_BD_Shape_long_double (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*) [related]

10.162.2.20 int ppl_new_Z_Box_from_BD_Shape_long_double_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_long_double_t *ph*, int *complexity*) [related]

10.162.2.21 int ppl_new_Z_Box_from_BD_Shape_mpq_class (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*) [related]

10.162.2.22 int ppl_new_Z_Box_from_BD_Shape_mpq_class_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.162.2.23 int ppl_new_Z_Box_from_BD_Shape_mpz_class (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*) [related]

10.162.2.24 int ppl_new_Z_Box_from_BD_Shape_mpz_class_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_BD_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.162.2.25 int ppl_new_Z_Box_from_C_Polyhedron (ppl_Z_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.162.2.26 int ppl_new_Z_Box_from_C_Polyhedron_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.162.2.27 int ppl_new_Z_Box_from_Congruence_System (ppl_Z_Box_t * *pph*, ppl_const_Congruence_System_t *cs*) [related]

10.162.2.28 int ppl_new_Z_Box_from_Constraint_System (ppl_Z_Box_t * *pph*, ppl_const_Constraint_System_t *cs*) [related]

10.162.2.29 int ppl_new_Z_Box_from_Double_Box (ppl_Z_Box_t * *pph*, ppl_const_Double_Box_t *ph*) [related]

10.162.2.30 int ppl_new_Z_Box_from_Double_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Double_Box_t *ph*, int *complexity*) [related]

10.162.2.31 int ppl_new_Z_Box_from_Float_Box (ppl_Z_Box_t * *pph*, ppl_const_Float_Box_t *ph*) [related]

10.162.2.32 int ppl_new_Z_Box_from_Float_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Float_Box_t *ph*, int *complexity*) [related]

10.162.2.33 int ppl_new_Z_Box_from_Generator_System (ppl_Z_Box_t * *pph*, ppl_const_Generator_System_t *cs*) [related]

10.162.2.34 int ppl_new_Z_Box_from_Grid (ppl_Z_Box_t * *pph*, ppl_const_Grid_t *ph*) [related]

10.162.2.35 int ppl_new_Z_Box_from_Grid_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Grid_t *ph*, int *complexity*) [related]

10.162.2.36 int ppl_new_Z_Box_from_Int16_Box (ppl_Z_Box_t * *pph*, ppl_const_Int16_Box_t *ph*) [related]

10.162.2.37 int ppl_new_Z_Box_from_Int16_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Int16_Box_t *ph*, int *complexity*) [related]

10.162.2.38 int ppl_new_Z_Box_from_Int32_Box (ppl_Z_Box_t * *pph*, ppl_const_Int32_Box_t *ph*) [related]

10.162.2.39 int ppl_new_Z_Box_from_Int32_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Int32_Box_t *ph*, int *complexity*) [related]

10.162.2.40 int ppl_new_Z_Box_from_Int64_Box (ppl_Z_Box_t * *pph*, ppl_const_Int64_Box_t *ph*) [related]

10.162.2.41 int ppl_new_Z_Box_from_Int64_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Int64_Box_t *ph*, int *complexity*) [related]

10.162.2.42 int ppl_new_Z_Box_from_Int8_Box (ppl_Z_Box_t * *pph*, ppl_const_Int8_Box_t *ph*) [related]

10.162.2.43 int ppl_new_Z_Box_from_Int8_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Int8_Box_t *ph*, int *complexity*) [related]

10.162.2.44 int ppl_new_Z_Box_from_Long_Double_Box (ppl_Z_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*) [related]

10.162.2.45 int ppl_new_Z_Box_from_Long_Double_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Long_Double_Box_t *ph*, int *complexity*) [related]

10.162.2.46 int ppl_new_Z_Box_from_NNC_Polyhedron (ppl_Z_Box_t * *pph*, ppl_const_Polyhedron_t *ph*) [related]

10.162.2.47 int ppl_new_Z_Box_from_NNC_Polyhedron_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Polyhedron_t *ph*, int *complexity*) [related]

10.162.2.48 int ppl_new_Z_Box_from_Octagonal_Shape_double (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*) [related]

10.162.2.49 int ppl_new_Z_Box_from_Octagonal_Shape_double_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_double_t *ph*, int *complexity*) [related]

10.162.2.50 int ppl_new_Z_Box_from_Octagonal_Shape_float (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*) [related]

10.162.2.51 int ppl_new_Z_Box_from_Octagonal_Shape_float_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_float_t *ph*, int *complexity*) [related]

10.162.2.52 int ppl_new_Z_Box_from_Octagonal_Shape_int16_t (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*) [related]

10.162.2.53 int ppl_new_Z_Box_from_Octagonal_Shape_int16_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int16_t_t *ph*, int *complexity*) [related]

10.162.2.54 int ppl_new_Z_Box_from_Octagonal_Shape_int32_t (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*) [related]

10.162.2.55 int ppl_new_Z_Box_from_Octagonal_Shape_int32_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int32_t_t *ph*, int *complexity*) [related]

10.162.2.56 int ppl_new_Z_Box_from_Octagonal_Shape_int64_t (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*) [related]

10.162.2.57 int ppl_new_Z_Box_from_Octagonal_Shape_int64_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int64_t_t *ph*, int *complexity*) [related]

10.162.2.58 int ppl_new_Z_Box_from_Octagonal_Shape_int8_t (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*) [related]

10.162.2.59 int ppl_new_Z_Box_from_Octagonal_Shape_int8_t_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_int8_t_t *ph*, int *complexity*) [related]

10.162.2.60 int ppl_new_Z_Box_from_Octagonal_Shape_long_double (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*) [related]

10.162.2.61 int ppl_new_Z_Box_from_Octagonal_Shape_long_double_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_long_double_t *ph*, int *complexity*) [related]

10.162.2.62 int ppl_new_Z_Box_from_Octagonal_Shape_mpq_class (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*) [related]

10.162.2.63 int ppl_new_Z_Box_from_Octagonal_Shape_mpq_class_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_mpq_class_t *ph*, int *complexity*) [related]

10.162.2.64 int ppl_new_Z_Box_from_Octagonal_Shape_mpz_class (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*) [related]

10.162.2.65 int ppl_new_Z_Box_from_Octagonal_Shape_mpz_class_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Octagonal_Shape_mpz_class_t *ph*, int *complexity*) [related]

10.162.2.66 int ppl_new_Z_Box_from_Rational_Box (ppl_Z_Box_t * *pph*, ppl_const_Rational_Box_t *ph*) [related]

10.162.2.67 int ppl_new_Z_Box_from_Rational_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Rational_Box_t *ph*, int *complexity*) [related]

10.162.2.68 int ppl_new_Z_Box_from_space_dimension (ppl_Z_Box_t * *pph*, ppl_dimension_type *d*, int *empty*) [related]

10.162.2.69 int ppl_new_Z_Box_from_Uint16_Box (ppl_Z_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*) [related]

10.162.2.70 int ppl_new_Z_Box_from_Uint16_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Uint16_Box_t *ph*, int *complexity*) [related]

10.162.2.71 int ppl_new_Z_Box_from_Uint32_Box (ppl_Z_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*) [related]

10.162.2.72 int ppl_new_Z_Box_from_Uint32_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Uint32_Box_t *ph*, int *complexity*) [related]

10.162.2.73 int ppl_new_Z_Box_from_Uint64_Box (ppl_Z_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*) [related]

10.162.2.74 int ppl_new_Z_Box_from_Uint64_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Uint64_Box_t *ph*, int *complexity*) [related]

10.162.2.75 int ppl_new_Z_Box_from_Uint8_Box (ppl_Z_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*) [related]

10.162.2.76 int ppl_new_Z_Box_from_Uint8_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Uint8_Box_t *ph*, int *complexity*) [related]

10.162.2.77 int ppl_new_Z_Box_from_Z_Box (ppl_Z_Box_t * *pph*, ppl_const_Z_Box_t *ph*) [related]

10.162.2.78 int ppl_new_Z_Box_from_Z_Box_with_complexity (ppl_Z_Box_t * *pph*, ppl_const_Z_Box_t *ph*, int *complexity*) [related]

10.162.2.79 int ppl_new_Z_Box_recycle_Congruence_System (ppl_Z_Box_t * *pph*, ppl_Congruence_System_t *cs*) [related]

10.162.2.80 int ppl_new_Z_Box_recycle_Constraint_System (ppl_Z_Box_t * *pph*, ppl_Constraint_System_t *cs*) [related]

10.162.2.81 int ppl_new_Z_Box_recycle_Generator_System (ppl_Z_Box_t * *pph*, ppl_Generator_System_t *cs*) [related]

10.162.2.82 int ppl_one_affine_ranking_function_MS_Z_Box (ppl_const_Z_Box_t *pset*, ppl_Generator_t *point*) [related]

10.162.2.83 int ppl_one_affine_ranking_function_MS_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.162.2.84 int ppl_one_affine_ranking_function_PR_Z_Box (ppl_const_Z_Box_t *pset*, ppl_Generator_t *point*) [related]

10.162.2.85 int ppl_one_affine_ranking_function_PR_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*, ppl_Generator_t *point*) [related]

10.162.2.86 int ppl_termination_test_MS_Z_Box (ppl_const_Z_Box_t *pset*) [related]

10.162.2.87 int ppl_termination_test_MS_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*) [related]

10.162.2.88 int ppl_termination_test_PR_Z_Box (ppl_const_Z_Box_t *pset*) [related]

10.162.2.89 int ppl_termination_test_PR_Z_Box_2 (ppl_const_Z_Box_t *pset_before*, ppl_const_Z_Box_t *pset_after*) [related]

10.162.2.90 int ppl_Z_Box_add_congruence (ppl_Z_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.162.2.91 int ppl_Z_Box_add_congruences (ppl_Z_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.162.2.92 int ppl_Z_Box_add_constraint (ppl_Z_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.162.2.93 int ppl_Z_Box_add_constraints (ppl_Z_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.162.2.94 int ppl_Z_Box_add_recycled_congruences (ppl_Z_Box_t *ph*, ppl_Congruence_System_t *cs*) [related]

10.162.2.95 int ppl_Z_Box_add_recycled_constraints (ppl_Z_Box_t *ph*, ppl_Constraint_System_t *cs*) [related]

10.162.2.96 int ppl_Z_Box_add_space_dimensions_and_embed (ppl_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.162.2.97 int ppl_Z_Box_add_space_dimensions_and_project (ppl_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.162.2.98 int ppl_Z_Box_affine_dimension (ppl_const_Z_Box_t *ph*, ppl_dimension_type ∗ *m*) [related]

10.162.2.99 int ppl_Z_Box_affine_image (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.162.2.100 int ppl_Z_Box_affine_preimage (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.162.2.101 int ppl_Z_Box_bounded_affine_image (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.162.2.102 int ppl_Z_Box_bounded_affine_preimage (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t *lb*, ppl_const_Linear_Expression_t *ub*, ppl_const_Coefficient_t *d*) [related]

10.162.2.103 int ppl_Z_Box_bounds_from_above (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.162.2.104 int ppl_Z_Box_bounds_from_below (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*) [related]

10.162.2.105 int ppl_Z_Box_CC76_widening_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.106 int ppl_Z_Box_CC76_widening_assign_with_tokens (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*, unsigned ∗ *tp*) [related]

10.162.2.107 int ppl_Z_Box_concatenate_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.108 int ppl_Z_Box_constrains (ppl_Z_Box_t *ph*, ppl_dimension_type *var*) [related]

10.162.2.109 int ppl_Z_Box_contains_integer_point (ppl_const_Z_Box_t *ph*) [related]

10.162.2.110 int ppl_Z_Box_contains_Z_Box (ppl_const_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.111 int ppl_Z_Box_difference_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.112 int ppl_Z_Box_drop_some_non_integer_points (ppl_Z_Box_t *ph*, int *complexity*) [related]

10.162.2.113 int ppl_Z_Box_drop_some_non_integer_points_2 (ppl_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, int *complexity*) [related]

10.162.2.114 int ppl_Z_Box_equals_Z_Box (ppl_const_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.115 int ppl_Z_Box_expand_space_dimension (ppl_Z_Box_t *ph*, ppl_dimension_type *d*, ppl_dimension_type *m*) [related]

10.162.2.116 int ppl_Z_Box_external_memory_in_bytes (ppl_const_Z_Box_t *ps*, size_t * *sz*) [related]

10.162.2.117 int ppl_Z_Box_fold_space_dimensions (ppl_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, ppl_dimension_type *d*) [related]

10.162.2.118 int ppl_Z_Box_frequency (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_fn*, ppl_Coefficient_t *ext_fd*, ppl_Coefficient_t *ext_vn*, ppl_Coefficient_t *ext_vd*) [related]

10.162.2.119 int ppl_Z_Box_generalized_affine_image (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.162.2.120 int ppl_Z_Box_generalized_affine_image_lhs_rhs (ppl_Z_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.162.2.121 int ppl_Z_Box_generalized_affine_preimage (ppl_Z_Box_t *ph*, ppl_dimension_type *var*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *d*) [related]

10.162.2.122 int ppl_Z_Box_generalized_affine_preimage_lhs_rhs (ppl_Z_Box_t *ph*, ppl_const_Linear_Expression_t *lhs*, enum ppl_enum_Constraint_Type *relsym*, ppl_const_Linear_Expression_t *rhs*) [related]

10.162.2.123 int ppl_Z_Box_get_congruences (ppl_const_Z_Box_t *ph*, ppl_const_Congruence_System_t * *pcs*) [related]

10.162.2.124 int ppl_Z_Box_get_constraints (ppl_const_Z_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.162.2.125 int ppl_Z_Box_get_minimized_congruences (ppl_const_Z_Box_t *ph*, ppl_const_Congruence_System_t ∗ *pcs*) [related]

10.162.2.126 int ppl_Z_Box_get_minimized_constraints (ppl_const_Z_Box_t *ph*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

10.162.2.127 int ppl_Z_Box_intersection_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.128 int ppl_Z_Box_is_bounded (ppl_const_Z_Box_t *ph*) [related]

10.162.2.129 int ppl_Z_Box_is_discrete (ppl_const_Z_Box_t *ph*) [related]

10.162.2.130 int ppl_Z_Box_is_disjoint_from_Z_Box (ppl_const_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.131 int ppl_Z_Box_is_empty (ppl_const_Z_Box_t *ph*) [related]

10.162.2.132 int ppl_Z_Box_is_topologically_closed (ppl_const_Z_Box_t *ph*) [related]

10.162.2.133 int ppl_Z_Box_is_universe (ppl_const_Z_Box_t *ph*) [related]

10.162.2.134 int ppl_Z_Box_limited_CC76_extrapolation_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*, ppl_const_Constraint_System_t *cs*) [related]

10.162.2.135 int ppl_Z_Box_limited_CC76_extrapolation_assign_with_tokens (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*, ppl_const_Constraint_System_t *cs*, unsigned * *tp*) [related]

10.162.2.136 int ppl_Z_Box_linear_partition (ppl_const_Z_Box_t *x*, ppl_const_Z_Box_t *y*, ppl_Z_Box_t * *p_inters*, ppl_Pointset_Powerset_NNC_Polyhedron_t * *p_rest*) [related]

10.162.2.137 int ppl_Z_Box_map_space_dimensions (ppl_Z_Box_t *ph*, ppl_dimension_type *maps*[ ], size_t *n*) [related]

10.162.2.138 int ppl_Z_Box_maximize (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.162.2.139 int ppl_Z_Box_maximize_with_point (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.162.2.140 int ppl_Z_Box_minimize (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*) [related]

10.162.2.141 int ppl_Z_Box_minimize_with_point (ppl_const_Z_Box_t *ph*, ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *ext_n*, ppl_Coefficient_t *ext_d*, int * *poptimum*, ppl_Generator_t *point*) [related]

10.162.2.142 int ppl_Z_Box_OK (ppl_const_Z_Box_t *ph*) [related]

10.162.2.143 int ppl_Z_Box_refine_with_congruence (ppl_Z_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.162.2.144 int ppl_Z_Box_refine_with_congruences (ppl_Z_Box_t *ph*, ppl_const_Congruence_System_t *cs*) [related]

10.162.2.145 int ppl_Z_Box_refine_with_constraint (ppl_Z_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.162.2.146 int ppl_Z_Box_refine_with_constraints (ppl_Z_Box_t *ph*, ppl_const_Constraint_System_t *cs*) [related]

10.162.2.147 int ppl_Z_Box_relation_with_Congruence (ppl_const_Z_Box_t *ph*, ppl_const_Congruence_t *c*) [related]

10.162.2.148 int ppl_Z_Box_relation_with_Constraint (ppl_const_Z_Box_t *ph*, ppl_const_Constraint_t *c*) [related]

10.162.2.149 int ppl_Z_Box_relation_with_Generator (ppl_const_Z_Box_t *ph*, ppl_const_Generator_t *c*) [related]

10.162.2.150 int ppl_Z_Box_remove_higher_space_dimensions (ppl_Z_Box_t *ph*, ppl_dimension_type *d*) [related]

10.162.2.151 int ppl_Z_Box_remove_space_dimensions (ppl_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.162.2.152 int ppl_Z_Box_simplify_using_context_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.153 int ppl_Z_Box_space_dimension (ppl_const_Z_Box_t *ph*, ppl_dimension_type * *m*) [related]

10.162.2.154 int ppl_Z_Box_strictly_contains_Z_Box (ppl_const_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.155 int ppl_Z_Box_time_elapse_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.156 int ppl_Z_Box_topological_closure_assign (ppl_Z_Box_t *ph*) [related]

10.162.2.157 int ppl_Z_Box_total_memory_in_bytes (ppl_const_Z_Box_t *ps*, size_t * *sz*) [related]

10.162.2.158 int ppl_Z_Box_unconstrain_space_dimension (ppl_Z_Box_t *ph*, ppl_dimension_type *var*) [related]

10.162.2.159 int ppl_Z_Box_unconstrain_space_dimensions (ppl_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

10.162.2.160 int ppl_Z_Box_upper_bound_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.161 int ppl_Z_Box_upper_bound_assign_if_exact (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.162 int ppl_Z_Box_widening_assign (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*) [related]

10.162.2.163 int ppl_Z_Box_widening_assign_with_tokens (ppl_Z_Box_t *x*, ppl_const_Z_Box_t *y*, unsigned ∗ *tp*) [related]

10.162.2.164 int ppl_Z_Box_wrap_assign (ppl_Z_Box_t *ph*, ppl_dimension_type *ds*[ ], size_t *n*, enum ppl_enum_Bounded_Integer_Type_Width *w*, enum ppl_enum_Bounded_-Integer_Type_Representation *r*, enum ppl_enum_Bounded_Integer_Type_Overflow *o*, const ppl_const_Constraint_System_t ∗ *pcs*, unsigned *complexity_threshold*, int *wrap_individually*) [related]

The documentation for this interface was generated from the following file:

- ppl_c.h

10.163 Parma_Polyhedra_Library::Interfaces::C::timeout_exception Class Reference

`#include <ppl_c_implementation_common.defs.hh>`

Public Member Functions

- void throw_me () const
- int priority () const

10.163.1 Detailed Description

Definition at line 106 of file ppl_c_implementation_common.defs.hh.

10.163.2 Member Function Documentation

10.163.2.1 int Parma_Polyhedra_Library::Interfaces::C::timeout_exception::priority () const [inline]

Definition at line 111 of file ppl_c_implementation_common.defs.hh.

10.163.2.2 void Parma_Polyhedra_Library::Interfaces::C::timeout_exception::throw_me () const [inline]

Definition at line 108 of file ppl_c_implementation_common.defs.hh.

The documentation for this class was generated from the following file:

- ppl_c_implementation_common.defs.hh

11 File Documentation

11.1 C_interface.dox File Reference

11.1.1 Function Documentation

11.1.1.1 int ppl_Polyhedron_relation_with_Congruence (ppl_const_Polyhedron_t *ph*, ppl_const_Congruence_t *c*) [related]

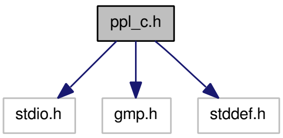
11.2 fdl.dox File Reference

11.3 gpl.dox File Reference

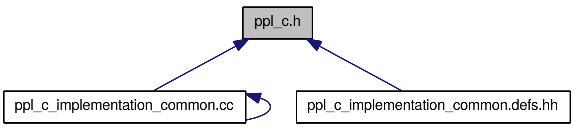
11.4 ppl_c.h File Reference

```
#include <stdio.h>
#include <gmp.h>
#include <stddef.h>
```

Include dependency graph for ppl_c.h:



This graph shows which files directly or indirectly include this file:



Defines

- #define PPL_PROTO(protos) ()
- #define PPL_VERSION "0.11.2"

  A string containing the PPL version.

- #define PPL_VERSION_MAJOR 0

  The major number of the PPL version.

- #define PPL_VERSION_MINOR 11

  The minor number of the PPL version.

- #define PPL_VERSION_REVISION 2

  The revision number of the PPL version.

- #define PPL_VERSION_BETA 0

  The beta number of the PPL version. This is zero for official releases and nonzero for development snapshots.

- #define PPL_TYPE_DECLARATION(Type)
- #define PPL_DECLARE_PRINT_FUNCTIONS(Type)
- #define PPL_DECLARE_ASCII_DUMP_LOAD_FUNCTIONS(Type)
- #define PPL_DECLARE_IO_FUNCTIONS(Type)
- #define PPL_DECLARE_AND_DOCUMENT_PRINT_FUNCTIONS(Type)
- #define PPL_DECLARE_AND_DOCUMENT_ASCII_DUMP_LOAD_FUNCTIONS(Type)
- #define PPL_DECLARE_AND_DOCUMENT_IO_FUNCTIONS(Type)

Typedefs

- typedef size_t ppl_dimension_type

  An unsigned integral type for representing space dimensions.

- typedef const char * ppl_io_variable_output_function_type (ppl_dimension_type var)

  The type of output functions used for printing variables.

Enumerations

- enum ppl_enum_error_code {

  PPL_ERROR_OUT_OF_MEMORY, PPL_ERROR_INVALID_ARGUMENT, PPL_ERROR_DOMAIN_ERROR, PPL_ERROR_LENGTH_ERROR,

  PPL_ARITHMETIC_OVERFLOW, PPL_STDIO_ERROR, PPL_ERROR_INTERNAL_ERROR, PPL_ERROR_UNKNOWN_STANDARD_EXCEPTION,

  PPL_ERROR_UNEXPECTED_ERROR, PPL_TIMEOUT_EXCEPTION, PPL_ERROR_LOGIC_ERROR }

  Defines the error codes that any function may return.

- enum ppl_enum_Constraint_Type {

  PPL_CONSTRAINT_TYPE_LESS_THAN, PPL_CONSTRAINT_TYPE_LESS_OR_EQUAL, PPL_CONSTRAINT_TYPE_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_OR_EQUAL,

  PPL_CONSTRAINT_TYPE_GREATER_THAN }

  Describes the relations represented by a constraint.

- enum ppl_enum_Generator_Type { PPL_GENERATOR_TYPE_LINE, PPL_GENERATOR_TYPE_RAY, PPL_GENERATOR_TYPE_POINT, PPL_GENERATOR_TYPE_CLOSURE_POINT }

  Describes the different kinds of generators.

- enum ppl_enum_Grid_Generator_Type { PPL_GRID_GENERATOR_TYPE_LINE, PPL_GRID_GENERATOR_TYPE_PARAMETER, PPL_GRID_GENERATOR_TYPE_POINT }

  Describes the different kinds of grid generators.

- enum ppl_enum_Bounded_Integer_Type_Width {
  PPL_BITS_8, PPL_BITS_16, PPL_BITS_32, PPL_BITS_64,
  PPL_BITS_128 }

  Widths of bounded integer types.

- enum ppl_enum_Bounded_Integer_Type_Representation { PPL_UNSIGNED, PPL_SIGNED_2_COMPLEMENT }

  Representation of bounded integer types.

- enum ppl_enum_Bounded_Integer_Type_Overflow { PPL_OVERFLOW_WRAPS, PPL_OVERFLOW_UNDEFINED, PPL_OVERFLOW_IMPOSSIBLE }

  Overflow behavior of bounded integer types.

Functions

- int ppl_initialize (void)

  Initializes the Parma Polyhedra Library. This function must be called before any other function.

- int ppl_finalize (void)

  Finalizes the Parma Polyhedra Library. This function must be called after any other function.

- int ppl_set_rounding_for_PPL (void)

  Sets the FPU rounding mode so that the PPL abstractions based on floating point numbers work correctly.

- int ppl_restore_pre_PPL_rounding (void)

  Sets the FPU rounding mode as it was before initialization of the PPL.

- int ppl_irrational_precision (unsigned *p)

  Writes to `p` *the precision parameter used for irrational calculations.*

- int ppl_set_irrational_precision (unsigned p)

  Sets the precision parameter used for irrational calculations.

- int ppl_version_major (void)

  Returns the major number of the PPL version.

- int ppl_version_minor (void)

  Returns the minor number of the PPL version.

- int ppl_version_revision (void)

  Returns the revision number of the PPL version.

- int ppl_version_beta (void)

  Returns the beta number of the PPL version.

- int ppl_version (const char **p)

  Writes to `*p` a pointer to a character string containing the PPL version.

- int ppl_banner (const char **p)

  Writes to `*p` a pointer to a character string containing the PPL banner.

- int ppl_set_error_handler (void(*h)(enum ppl_enum_error_code code, const char *description))

  Installs the user-defined error handler pointed at by `h`.

- int ppl_set_timeout (unsigned time)

  Sets the timeout for computations whose completion could require an exponential amount of time.

- int ppl_reset_timeout (void)

  Resets the timeout time so that the computation is not interrupted.

- int ppl_set_deterministic_timeout (unsigned weight)

  Sets a threshold for computations whose completion could require an exponential amount of time.

- int ppl_reset_deterministic_timeout (void)

  Resets the deterministic timeout so that the computation is not interrupted.

- int ppl_max_space_dimension (ppl_dimension_type *m)

  Writes to `m` the maximum space dimension this library can handle.

- int ppl_not_a_dimension (ppl_dimension_type *m)

  Writes to `m` a value that does not designate a valid dimension.

- int ppl_io_print_variable (ppl_dimension_type var)

  Pretty-prints `var` to `stdout`.

- int ppl_io_fprint_variable (FILE *stream, ppl_dimension_type var)

  Pretty-prints `var` to the given output `stream`.

- int ppl_io_asprint_variable (char **strp, ppl_dimension_type var)

  Pretty-prints `var` to a malloc-allocated string, a pointer to which is returned via `strp`.

- int ppl_io_set_variable_output_function (ppl_io_variable_output_function_type *p)

  Sets the output function to be used for printing variables to `p`.

- int ppl_io_get_variable_output_function (ppl_io_variable_output_function_type **pp)

  Writes a pointer to the current variable output function to `pp`.

- char * ppl_io_wrap_string (const char *src, unsigned indent_depth, unsigned preferred_first_line_-length, unsigned preferred_line_length)

Utility function for the wrapping of lines of text.

Constructors, Assignment and Destructor

- int ppl_new_Generator_System_zero_dim_univ (ppl_Generator_System_t ∗pgs)
- int ppl_new_Grid_Generator_System_zero_dim_univ (ppl_Grid_Generator_System_t ∗pgs)

Variables

- unsigned int PPL_COMPLEXITY_CLASS_POLYNOMIAL

  Code of the worst-case polynomial complexity class.
- unsigned int PPL_COMPLEXITY_CLASS_SIMPLEX

  Code of the worst-case exponential but typically polynomial complexity class.
- unsigned int PPL_COMPLEXITY_CLASS_ANY

  Code of the universal complexity class.
- unsigned int PPL_POLY_CON_RELATION_IS_DISJOINT

  Individual bit saying that the polyhedron and the set of points satisfying the constraint are disjoint.
- unsigned int PPL_POLY_CON_RELATION_STRICTLY_INTERSECTS

  Individual bit saying that the polyhedron intersects the set of points satisfying the constraint, but it is not included in it.
- unsigned int PPL_POLY_CON_RELATION_IS_INCLUDED

  Individual bit saying that the polyhedron is included in the set of points satisfying the constraint.
- unsigned int PPL_POLY_CON_RELATION_SATURATES

  Individual bit saying that the polyhedron is included in the set of points saturating the constraint.
- unsigned int PPL_POLY_GEN_RELATION_SUBSUMES

  Individual bit saying that adding the generator would not change the polyhedron.

11.4.1 Define Documentation

11.4.1.1 #define PPL_DECLARE_AND_DOCUMENT_ASCII_DUMP_LOAD_-FUNCTIONS(Type)

Definition at line 837 of file ppl_c.h.

11.4.1.2 #define PPL_DECLARE_AND_DOCUMENT_IO_FUNCTIONS(Type)

Value:

```
                 \                                                    \
PPL_DECLARE_AND_DOCUMENT_PRINT_FUNCTIONS(Type)              \
PPL_DECLARE_AND_DOCUMENT_ASCII_DUMP_LOAD_FUNCTIONS(Type)  \
```

Definition at line 847 of file ppl_c.h.

11.4.1.3 #define PPL_DECLARE_AND_DOCUMENT_PRINT_FUNCTIONS(Type)

Definition at line 825 of file ppl_c.h.

11.4.1.4 #define PPL_DECLARE_ASCII_DUMP_LOAD_FUNCTIONS(Type)

Definition at line 811 of file ppl_c.h.

11.4.1.5 #define PPL_DECLARE_IO_FUNCTIONS(Type)

Value:

```
PPL_DECLARE_PRINT_FUNCTIONS(Type)              \
PPL_DECLARE_ASCII_DUMP_LOAD_FUNCTIONS(Type)
```

Definition at line 821 of file ppl_c.h.

11.4.1.6 #define PPL_DECLARE_PRINT_FUNCTIONS(Type)

Definition at line 800 of file ppl_c.h.

11.4.1.7 #define PPL_PROTO(protos) ()

Definition at line 162 of file ppl_c.h.

11.4.1.8 #define PPL_TYPE_DECLARATION(Type)

Value:

```
                           \
typedef struct ppl_##Type##_tag* ppl_##Type##_t;                      \        \
typedef struct ppl_##Type##_tag const* ppl_const_##Type##_t;
```

Definition at line 582 of file ppl_c.h.

11.4.2 Function Documentation

11.4.2.1 int ppl_new_Generator_System_zero_dim_univ (ppl_Generator_System_t * *pgs*)

Definition at line 1097 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.4.2.2 int ppl_new_Grid_Generator_System_zero_dim_univ (ppl_Grid_Generator_System_t * *pgs*)

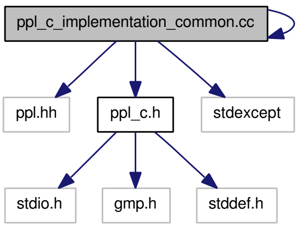
Definition at line 1690 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

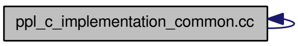
11.5 ppl_c_implementation_common.cc File Reference

```
#include "ppl_c_implementation_common.defs.hh"
#include "ppl.hh"
#include "ppl_c.h"
#include <stdexcept>
```

Include dependency graph for ppl_c_implementation_common.cc:



This graph shows which files directly or indirectly include this file:



Namespaces

- namespace Parma_Polyhedra_Library
- namespace Parma_Polyhedra_Library::Interfaces
- namespace Parma_Polyhedra_Library::Interfaces::C

Defines

- #define FORMAT "%u"
- #define CONVERSION (unsigned)

Typedefs

- typedef const char * Parma_Polyhedra_Library::Interfaces::C::c_variable_output_function_type (ppl_dimension_type var)

Functions

- const char * Parma_Polyhedra_Library::Interfaces::C::c_variable_default_output_function (ppl_-dimension_type var)
- void Parma_Polyhedra_Library::Interfaces::C::cxx_Variable_output_function (std::ostream &s, const Variable &v)
- void Parma_Polyhedra_Library::Interfaces::C::notify_error (enum ppl_enum_error_code code, const char *description)
- void Parma_Polyhedra_Library::Interfaces::C::reset_timeout ()
- void Parma_Polyhedra_Library::Interfaces::C::reset_deterministic_timeout ()
- int ppl_set_error_handler (error_handler_type h)
- int ppl_initialize (void)

  Initializes the Parma Polyhedra Library. This function must be called before any other function.

- catch (const std::invalid_argument &e)
- catch (const std::domain_error &e)
- catch (const std::length_error &e)
- catch (const std::logic_error &e)
- catch (const std::overflow_error &e)
- catch (const std::runtime_error &e)
- catch (const std::exception &e)
- catch (timeout_exception &)
- catch (deterministic_timeout_exception &)
- catch (...)
- int ppl_finalize (void)

  Finalizes the Parma Polyhedra Library. This function must be called after any other function.

- int ppl_set_timeout (unsigned time)

  Sets the timeout for computations whose completion could require an exponential amount of time.

- int ppl_reset_timeout (void)

  Resets the timeout time so that the computation is not interrupted.

- int ppl_set_deterministic_timeout (unsigned weight)

  Sets a threshold for computations whose completion could require an exponential amount of time.

- int ppl_reset_deterministic_timeout (void)

  Resets the deterministic timeout so that the computation is not interrupted.

- int ppl_set_rounding_for_PPL (void)

  Sets the FPU rounding mode so that the PPL abstractions based on floating point numbers work correctly.

- int ppl_restore_pre_PPL_rounding (void)

  Sets the FPU rounding mode as it was before initialization of the PPL.

- int ppl_irrational_precision (unsigned *p)

  Writes to `p` *the precision parameter used for irrational calculations.*

- int ppl_set_irrational_precision (unsigned p)

  Sets the precision parameter used for irrational calculations.

- int ppl_version_major (void)

  Returns the major number of the PPL version.

- int ppl_version_minor (void)

  Returns the minor number of the PPL version.

- int ppl_version_revision (void)

  Returns the revision number of the PPL version.

- int ppl_version_beta (void)

  Returns the beta number of the PPL version.

- int ppl_version (const char **p)

  Writes to `*p` *a pointer to a character string containing the PPL version.*

- int ppl_banner (const char **p)

  Writes to `*p` *a pointer to a character string containing the PPL banner.*

- int ppl_max_space_dimension (ppl_dimension_type *m)

  Writes to `m` *the maximum space dimension this library can handle.*

- int ppl_not_a_dimension (ppl_dimension_type *m)

  Writes to `m` *a value that does not designate a valid dimension.*

- int ppl_new_Coefficient (ppl_Coefficient_t *pc)
- int ppl_new_Coefficient_from_mpz_t (ppl_Coefficient_t *pc, mpz_t z)
- int ppl_new_Coefficient_from_Coefficient (ppl_Coefficient_t *pc, ppl_const_Coefficient_t c)
- int ppl_Coefficient_to_mpz_t (ppl_const_Coefficient_t c, mpz_t z)
- int ppl_delete_Coefficient (ppl_const_Coefficient_t c)
- int ppl_assign_Coefficient_from_mpz_t (ppl_Coefficient_t dst, mpz_t z)
- int ppl_assign_Coefficient_from_Coefficient (ppl_Coefficient_t dst, ppl_const_Coefficient_t src)
- int ppl_Coefficient_OK (ppl_const_Coefficient_t)
- int ppl_Coefficient_is_bounded (void)
- int ppl_Coefficient_min (mpz_t min)
- int ppl_Coefficient_max (mpz_t max)
- int ppl_new_Linear_Expression (ppl_Linear_Expression_t *ple)
- int ppl_new_Linear_Expression_with_dimension (ppl_Linear_Expression_t *ple, ppl_dimension_type d)
- int ppl_new_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t *ple, ppl_const_Linear_Expression_t le)
- int ppl_delete_Linear_Expression (ppl_const_Linear_Expression_t le)
- int ppl_assign_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t dst, ppl_const_Linear_Expression_t src)
- int ppl_Linear_Expression_add_to_coefficient (ppl_Linear_Expression_t le, ppl_dimension_type var, ppl_const_Coefficient_t n)
- int ppl_Linear_Expression_add_to_inhomogeneous (ppl_Linear_Expression_t le, ppl_const_Coefficient_t n)
- int ppl_add_Linear_Expression_to_Linear_Expression (ppl_Linear_Expression_t dst, ppl_const_Linear_Expression_t src)

- int ppl_subtract_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t dst, ppl_-const_Linear_Expression_t src)
- int ppl_multiply_Linear_Expression_by_Coefficient (ppl_Linear_Expression_t le, ppl_const_-Coefficient_t n)
- int ppl_Linear_Expression_space_dimension (ppl_const_Linear_Expression_t le, ppl_dimension_-type *m)
- int ppl_Linear_Expression_coefficient (ppl_const_Linear_Expression_t le, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Linear_Expression_inhomogeneous_term (ppl_const_Linear_Expression_t le, ppl_-Coefficient_t n)
- int ppl_Linear_Expression_OK (ppl_const_Linear_Expression_t le)
- int ppl_Linear_Expression_is_zero (ppl_const_Linear_Expression_t le)
- int ppl_Linear_Expression_all_homogeneous_terms_are_zero (ppl_const_Linear_Expression_t le)
- int ppl_new_Constraint (ppl_Constraint_t *pc, ppl_const_Linear_Expression_t le, enum ppl_-enum_Constraint_Type t)
- int ppl_new_Constraint_zero_dim_false (ppl_Constraint_t *pc)
- int ppl_new_Constraint_zero_dim_positivity (ppl_Constraint_t *pc)
- int ppl_new_Constraint_from_Constraint (ppl_Constraint_t *pc, ppl_const_Constraint_t c)
- int ppl_delete_Constraint (ppl_const_Constraint_t le)
- int ppl_assign_Constraint_from_Constraint (ppl_Constraint_t dst, ppl_const_Constraint_t src)
- int ppl_Constraint_space_dimension (ppl_const_Constraint_t c, ppl_dimension_type *m)
- int ppl_Constraint_type (ppl_const_Constraint_t c)
- int ppl_Constraint_coefficient (ppl_const_Constraint_t c, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Constraint_inhomogeneous_term (ppl_const_Constraint_t c, ppl_Coefficient_t n)
- int ppl_Constraint_OK (ppl_const_Constraint_t c)
- int ppl_new_Linear_Expression_from_Constraint (ppl_Linear_Expression_t *ple, ppl_const_-Constraint_t c)
- int ppl_new_Constraint_System (ppl_Constraint_System_t *pcs)
- int ppl_new_Constraint_System_zero_dim_empty (ppl_Constraint_System_t *pcs)
- int ppl_new_Constraint_System_from_Constraint (ppl_Constraint_System_t *pcs, ppl_const_-Constraint_t c)
- int ppl_new_Constraint_System_from_Constraint_System (ppl_Constraint_System_t *pcs, ppl_-const_Constraint_System_t cs)
- int ppl_delete_Constraint_System (ppl_const_Constraint_System_t cs)
- int ppl_assign_Constraint_System_from_Constraint_System (ppl_Constraint_System_t dst, ppl_-const_Constraint_System_t src)
- int ppl_Constraint_System_space_dimension (ppl_const_Constraint_System_t cs, ppl_dimension_-type *m)
- int ppl_Constraint_System_empty (ppl_const_Constraint_System_t cs)
- int ppl_Constraint_System_has_strict_inequalities (ppl_const_Constraint_System_t cs)
- int ppl_Constraint_System_clear (ppl_Constraint_System_t cs)
- int ppl_Constraint_System_insert_Constraint (ppl_Constraint_System_t cs, ppl_const_Constraint_t c)
- int ppl_Constraint_System_OK (ppl_const_Constraint_System_t cs)
- int ppl_new_Constraint_System_const_iterator (ppl_Constraint_System_const_iterator_t *pcit)
- int ppl_new_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_-Constraint_System_const_iterator_t *pcit, ppl_const_Constraint_System_const_iterator_t cit)
- int ppl_delete_Constraint_System_const_iterator (ppl_const_Constraint_System_const_iterator_-t cit)

- int ppl_assign_Constraint_System_const_iterator_from_Constraint_System_const_iterator (ppl_-Constraint_System_const_iterator_t dst, ppl_const_Constraint_System_const_iterator_t src)
- int ppl_Constraint_System_begin (ppl_const_Constraint_System_t cs, ppl_Constraint_System_-const_iterator_t cit)
- int ppl_Constraint_System_end (ppl_const_Constraint_System_t cs, ppl_Constraint_System_-const_iterator_t cit)
- int ppl_Constraint_System_const_iterator_dereference (ppl_const_Constraint_System_const_-iterator_t cit, ppl_const_Constraint_t *pc)
- int ppl_Constraint_System_const_iterator_increment (ppl_Constraint_System_const_iterator_t cit)
- int ppl_Constraint_System_const_iterator_equal_test (ppl_const_Constraint_System_const_-iterator_t x, ppl_const_Constraint_System_const_iterator_t y)
- int ppl_new_Generator (ppl_Generator_t *pg, ppl_const_Linear_Expression_t le, enum ppl_enum_-Generator_Type t, ppl_const_Coefficient_t d)
- int ppl_new_Generator_zero_dim_point (ppl_Generator_t *pg)
- int ppl_new_Generator_zero_dim_closure_point (ppl_Generator_t *pg)
- int ppl_new_Generator_from_Generator (ppl_Generator_t *pg, ppl_const_Generator_t g)
- int ppl_delete_Generator (ppl_const_Generator_t le)
- int ppl_assign_Generator_from_Generator (ppl_Generator_t dst, ppl_const_Generator_t src)
- int ppl_Generator_space_dimension (ppl_const_Generator_t g, ppl_dimension_type *m)
- int ppl_Generator_type (ppl_const_Generator_t g)
- int ppl_Generator_coefficient (ppl_const_Generator_t g, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Generator_divisor (ppl_const_Generator_t g, ppl_Coefficient_t n)
- int ppl_Generator_OK (ppl_const_Generator_t g)
- int ppl_new_Linear_Expression_from_Generator (ppl_Linear_Expression_t *ple, ppl_const_-Generator_t g)
- int ppl_new_Generator_System (ppl_Generator_System_t *pgs)
- int ppl_new_Generator_System_zero_dim_univ (ppl_Generator_System_t *pgs)
- int ppl_new_Generator_System_from_Generator (ppl_Generator_System_t *pgs, ppl_const_-Generator_t g)
- int ppl_new_Generator_System_from_Generator_System (ppl_Generator_System_t *pgs, ppl_-const_Generator_System_t gs)
- int ppl_delete_Generator_System (ppl_const_Generator_System_t gs)
- int ppl_assign_Generator_System_from_Generator_System (ppl_Generator_System_t dst, ppl_-const_Generator_System_t src)
- int ppl_Generator_System_space_dimension (ppl_const_Generator_System_t gs, ppl_dimension_-type *m)
- int ppl_Generator_System_empty (ppl_const_Generator_System_t gs)
- int ppl_Generator_System_clear (ppl_Generator_System_t gs)
- int ppl_Generator_System_insert_Generator (ppl_Generator_System_t gs, ppl_const_Generator_t g)
- int ppl_Generator_System_OK (ppl_const_Generator_System_t gs)
- int ppl_new_Generator_System_const_iterator (ppl_Generator_System_const_iterator_t *pgit)
- int ppl_new_Generator_System_const_iterator_from_Generator_System_const_iterator (ppl_-Generator_System_const_iterator_t *pgit, ppl_const_Generator_System_const_iterator_t git)
- int ppl_delete_Generator_System_const_iterator (ppl_const_Generator_System_const_iterator_-t git)
- int ppl_assign_Generator_System_const_iterator_from_Generator_System_const_iterator (ppl_-Generator_System_const_iterator_t dst, ppl_const_Generator_System_const_iterator_t src)
- int ppl_Generator_System_begin (ppl_const_Generator_System_t gs, ppl_Generator_System_-const_iterator_t git)

- int ppl_Generator_System_end (ppl_const_Generator_System_t gs, ppl_Generator_System_const_iterator_t git)
- int ppl_Generator_System_const_iterator_dereference (ppl_const_Generator_System_const_iterator_t git, ppl_const_Generator_t *pg)
- int ppl_Generator_System_const_iterator_increment (ppl_Generator_System_const_iterator_t git)
- int ppl_Generator_System_const_iterator_equal_test (ppl_const_Generator_System_const_iterator_t x, ppl_const_Generator_System_const_iterator_t y)
- int ppl_new_Congruence (ppl_Congruence_t *pc, ppl_const_Linear_Expression_t le, ppl_const_Coefficient_t m)
- int ppl_new_Congruence_zero_dim_false (ppl_Congruence_t *pc)
- int ppl_new_Congruence_zero_dim_integrality (ppl_Congruence_t *pc)
- int ppl_new_Congruence_from_Congruence (ppl_Congruence_t *pc, ppl_const_Congruence_t c)
- int ppl_delete_Congruence (ppl_const_Congruence_t le)
- int ppl_assign_Congruence_from_Congruence (ppl_Congruence_t dst, ppl_const_Congruence_t src)
- int ppl_Congruence_space_dimension (ppl_const_Congruence_t c, ppl_dimension_type *m)
- int ppl_Congruence_coefficient (ppl_const_Congruence_t c, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Congruence_inhomogeneous_term (ppl_const_Congruence_t c, ppl_Coefficient_t n)
- int ppl_Congruence_modulus (ppl_const_Congruence_t c, ppl_Coefficient_t m)
- int ppl_Congruence_OK (ppl_const_Congruence_t c)
- int ppl_new_Linear_Expression_from_Congruence (ppl_Linear_Expression_t *ple, ppl_const_Congruence_t c)
- int ppl_new_Congruence_System (ppl_Congruence_System_t *pcs)
- int ppl_new_Congruence_System_zero_dim_empty (ppl_Congruence_System_t *pcs)
- int ppl_new_Congruence_System_from_Congruence (ppl_Congruence_System_t *pcs, ppl_const_Congruence_t c)
- int ppl_new_Congruence_System_from_Congruence_System (ppl_Congruence_System_t *pcs, ppl_const_Congruence_System_t cs)
- int ppl_delete_Congruence_System (ppl_const_Congruence_System_t cs)
- int ppl_assign_Congruence_System_from_Congruence_System (ppl_Congruence_System_t dst, ppl_const_Congruence_System_t src)
- int ppl_Congruence_System_space_dimension (ppl_const_Congruence_System_t cs, ppl_dimension_type *m)
- int ppl_Congruence_System_empty (ppl_const_Congruence_System_t cs)
- int ppl_Congruence_System_clear (ppl_Congruence_System_t cs)
- int ppl_Congruence_System_insert_Congruence (ppl_Congruence_System_t cs, ppl_const_Congruence_t c)
- int ppl_Congruence_System_OK (ppl_const_Congruence_System_t cs)
- int ppl_new_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t *pcit)
- int ppl_new_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t *pcit, ppl_const_Congruence_System_const_iterator_t cit)
- int ppl_delete_Congruence_System_const_iterator (ppl_const_Congruence_System_const_iterator_t cit)
- int ppl_assign_Congruence_System_const_iterator_from_Congruence_System_const_iterator (ppl_Congruence_System_const_iterator_t dst, ppl_const_Congruence_System_const_iterator_t src)
- int ppl_Congruence_System_begin (ppl_const_Congruence_System_t cs, ppl_Congruence_System_const_iterator_t cit)
- int ppl_Congruence_System_end (ppl_const_Congruence_System_t cs, ppl_Congruence_System_const_iterator_t cit)

- int ppl_Congruence_System_const_iterator_dereference (ppl_const_Congruence_System_const_iterator_t cit, ppl_const_Congruence_t *pc)
- int ppl_Congruence_System_const_iterator_increment (ppl_Congruence_System_const_iterator_t cit)
- int ppl_Congruence_System_const_iterator_equal_test (ppl_const_Congruence_System_const_iterator_t x, ppl_const_Congruence_System_const_iterator_t y)
- int ppl_new_Grid_Generator (ppl_Grid_Generator_t *pg, ppl_const_Linear_Expression_t le, enum ppl_enum_Grid_Generator_Type t, ppl_const_Coefficient_t d)
- int ppl_new_Grid_Generator_zero_dim_point (ppl_Grid_Generator_t *pg)
- int ppl_new_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t *pg, ppl_const_Grid_Generator_t g)
- int ppl_delete_Grid_Generator (ppl_const_Grid_Generator_t le)
- int ppl_assign_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t dst, ppl_const_Grid_Generator_t src)
- int ppl_Grid_Generator_space_dimension (ppl_const_Grid_Generator_t g, ppl_dimension_type *m)
- int ppl_Grid_Generator_type (ppl_const_Grid_Generator_t g)
- int ppl_Grid_Generator_coefficient (ppl_const_Grid_Generator_t g, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Grid_Generator_divisor (ppl_const_Grid_Generator_t g, ppl_Coefficient_t n)
- int ppl_Grid_Generator_OK (ppl_const_Grid_Generator_t g)
- int ppl_new_Grid_Generator_System (ppl_Grid_Generator_System_t *pgs)
- int ppl_new_Grid_Generator_System_zero_dim_univ (ppl_Grid_Generator_System_t *pgs)
- int ppl_new_Grid_Generator_System_from_Grid_Generator (ppl_Grid_Generator_System_t *pgs, ppl_const_Grid_Generator_t g)
- int ppl_new_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t *pgs, ppl_const_Grid_Generator_System_t gs)
- int ppl_delete_Grid_Generator_System (ppl_const_Grid_Generator_System_t gs)
- int ppl_assign_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t dst, ppl_const_Grid_Generator_System_t src)
- int ppl_Grid_Generator_System_space_dimension (ppl_const_Grid_Generator_System_t gs, ppl_dimension_type *m)
- int ppl_Grid_Generator_System_empty (ppl_const_Grid_Generator_System_t gs)
- int ppl_Grid_Generator_System_clear (ppl_Grid_Generator_System_t gs)
- int ppl_Grid_Generator_System_insert_Grid_Generator (ppl_Grid_Generator_System_t gs, ppl_const_Grid_Generator_t g)
- int ppl_Grid_Generator_System_OK (ppl_const_Grid_Generator_System_t gs)
- int ppl_new_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *pgit)
- int ppl_new_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *pgit, ppl_const_Grid_Generator_System_const_iterator_t git)
- int ppl_delete_Grid_Generator_System_const_iterator (ppl_const_Grid_Generator_System_const_iterator_t git)
- int ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t dst, ppl_const_Grid_Generator_System_const_iterator_t src)
- int ppl_Grid_Generator_System_begin (ppl_const_Grid_Generator_System_t gs, ppl_Grid_Generator_System_const_iterator_t git)
- int ppl_Grid_Generator_System_end (ppl_const_Grid_Generator_System_t gs, ppl_Grid_Generator_System_const_iterator_t git)
- int ppl_Grid_Generator_System_const_iterator_dereference (ppl_const_Grid_Generator_System_const_iterator_t git, ppl_const_Grid_Generator_t *pg)

- int ppl_Grid_Generator_System_const_iterator_increment (ppl_Grid_Generator_System_const_iterator_t git)
- int ppl_Grid_Generator_System_const_iterator_equal_test (ppl_const_Grid_Generator_System_const_iterator_t x, ppl_const_Grid_Generator_System_const_iterator_t y)
- int ppl_new_MIP_Problem_from_space_dimension (ppl_MIP_Problem_t ∗pmip, ppl_dimension_type d)
- int ppl_new_MIP_Problem (ppl_MIP_Problem_t ∗pmip, ppl_dimension_type d, ppl_const_Constraint_System_t cs, ppl_const_Linear_Expression_t le, int m)
- int ppl_new_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t ∗pmip, ppl_const_MIP_Problem_t mip)
- int ppl_delete_MIP_Problem (ppl_const_MIP_Problem_t mip)
- int ppl_assign_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t dst, ppl_const_MIP_Problem_t src)
- int ppl_MIP_Problem_space_dimension (ppl_const_MIP_Problem_t mip, ppl_dimension_type ∗m)
- int ppl_MIP_Problem_number_of_integer_space_dimensions (ppl_const_MIP_Problem_t mip, ppl_dimension_type ∗m)
- int ppl_MIP_Problem_integer_space_dimensions (ppl_const_MIP_Problem_t mip, ppl_dimension_type ds[ ])
- int ppl_MIP_Problem_number_of_constraints (ppl_const_MIP_Problem_t mip, ppl_dimension_type ∗m)
- int ppl_MIP_Problem_constraint_at_index (ppl_const_MIP_Problem_t mip, ppl_dimension_type i, ppl_const_Constraint_t ∗pc)
- int ppl_MIP_Problem_objective_function (ppl_const_MIP_Problem_t mip, ppl_const_Linear_Expression_t ∗ple)
- int ppl_MIP_Problem_optimization_mode (ppl_const_MIP_Problem_t mip)
- int ppl_MIP_Problem_clear (ppl_MIP_Problem_t mip)
- int ppl_MIP_Problem_add_space_dimensions_and_embed (ppl_MIP_Problem_t mip, ppl_dimension_type d)
- int ppl_MIP_Problem_add_to_integer_space_dimensions (ppl_MIP_Problem_t mip, ppl_dimension_type ds[ ], size_t n)
- int ppl_MIP_Problem_add_constraint (ppl_MIP_Problem_t mip, ppl_const_Constraint_t c)
- int ppl_MIP_Problem_add_constraints (ppl_MIP_Problem_t mip, ppl_const_Constraint_System_t cs)
- int ppl_MIP_Problem_set_objective_function (ppl_MIP_Problem_t mip, ppl_const_Linear_Expression_t le)
- int ppl_MIP_Problem_set_optimization_mode (ppl_MIP_Problem_t mip, int mode)
- int ppl_MIP_Problem_is_satisfiable (ppl_const_MIP_Problem_t mip)
- int ppl_MIP_Problem_solve (ppl_const_MIP_Problem_t mip)
- int ppl_MIP_Problem_evaluate_objective_function (ppl_const_MIP_Problem_t mip, ppl_const_Generator_t g, ppl_Coefficient_t num, ppl_Coefficient_t den)
- int ppl_MIP_Problem_feasible_point (ppl_const_MIP_Problem_t mip, ppl_const_Generator_t ∗pg)
- int ppl_MIP_Problem_optimizing_point (ppl_const_MIP_Problem_t mip, ppl_const_Generator_t ∗pg)
- int ppl_MIP_Problem_optimal_value (ppl_const_MIP_Problem_t mip, ppl_Coefficient_t num, ppl_Coefficient_t den)
- int ppl_MIP_Problem_get_control_parameter (ppl_const_MIP_Problem_t mip, int name)
- int ppl_MIP_Problem_set_control_parameter (ppl_MIP_Problem_t mip, int value)
- int ppl_MIP_Problem_OK (ppl_const_MIP_Problem_t mip)
- int ppl_MIP_Problem_total_memory_in_bytes (ppl_const_MIP_Problem_t mip, size_t ∗sz)
- int ppl_MIP_Problem_external_memory_in_bytes (ppl_const_MIP_Problem_t mip, size_t ∗sz)
- int ppl_new_PIP_Problem_from_space_dimension (ppl_PIP_Problem_t ∗ppip, ppl_dimension_type d)

- int ppl_new_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t *dpip, ppl_const_PIP_-Problem_t pip)
- int ppl_new_PIP_Problem_from_constraints (ppl_PIP_Problem_t *ppip, ppl_dimension_type d, ppl_Constraint_System_const_iterator_t first, ppl_Constraint_System_const_iterator_t last, size_t n, ppl_dimension_type ds[ ])
- int ppl_assign_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t dst, ppl_const_PIP_-Problem_t src)
- int ppl_delete_PIP_Problem (ppl_const_PIP_Problem_t pip)
- int ppl_PIP_Problem_space_dimension (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)
- int ppl_PIP_Problem_number_of_parameter_space_dimensions (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)
- int ppl_PIP_Problem_parameter_space_dimensions (ppl_const_PIP_Problem_t pip, ppl_-dimension_type ds[ ])
- int ppl_PIP_Problem_number_of_constraints (ppl_const_PIP_Problem_t pip, ppl_dimension_type *m)
- int ppl_PIP_Problem_constraint_at_index (ppl_const_PIP_Problem_t pip, ppl_dimension_type i, ppl_const_Constraint_t *pc)
- int ppl_PIP_Problem_clear (ppl_PIP_Problem_t pip)
- int ppl_PIP_Problem_add_space_dimensions_and_embed (ppl_PIP_Problem_t pip, ppl_-dimension_type pip_vars, ppl_dimension_type pip_params)
- int ppl_PIP_Problem_add_to_parameter_space_dimensions (ppl_PIP_Problem_t pip, ppl_-dimension_type ds[ ], size_t n)
- int ppl_PIP_Problem_add_constraint (ppl_PIP_Problem_t pip, ppl_const_Constraint_t c)
- int ppl_PIP_Problem_add_constraints (ppl_PIP_Problem_t pip, ppl_const_Constraint_System_t cs)
- int ppl_PIP_Problem_is_satisfiable (ppl_const_PIP_Problem_t pip)
- int ppl_PIP_Problem_solve (ppl_const_PIP_Problem_t pip)
- int ppl_PIP_Problem_solution (ppl_const_PIP_Problem_t pip, ppl_const_PIP_Tree_Node_t *ppip_-tree)
- int ppl_PIP_Problem_optimizing_solution (ppl_const_PIP_Problem_t pip, ppl_const_PIP_Tree_-Node_t *ppip_tree)
- int ppl_PIP_Problem_OK (ppl_const_PIP_Problem_t pip)
- int ppl_PIP_Problem_get_control_parameter (ppl_const_PIP_Problem_t pip, int name)
- int ppl_PIP_Problem_set_control_parameter (ppl_PIP_Problem_t pip, int value)
- int ppl_PIP_Problem_get_big_parameter_dimension (ppl_const_PIP_Problem_t pip, ppl_-dimension_type *pd)
- int ppl_PIP_Problem_set_big_parameter_dimension (ppl_PIP_Problem_t pip, ppl_dimension_type d)
- int ppl_PIP_Problem_total_memory_in_bytes (ppl_const_PIP_Problem_t pip, size_t *sz)
- int ppl_PIP_Problem_external_memory_in_bytes (ppl_const_PIP_Problem_t pip, size_t *sz)
- int ppl_PIP_Tree_Node_as_solution (ppl_const_PIP_Tree_Node_t spip_tree, ppl_const_PIP_-Solution_Node_t *dpip_tree)
- int ppl_PIP_Tree_Node_as_decision (ppl_const_PIP_Tree_Node_t spip_tree, ppl_const_PIP_-Decision_Node_t *dpip_tree)
- int ppl_PIP_Tree_Node_get_constraints (ppl_const_PIP_Tree_Node_t pip_tree, ppl_const_-Constraint_System_t *pcs)
- int ppl_PIP_Tree_Node_OK (ppl_const_PIP_Tree_Node_t pip_tree)
- int ppl_PIP_Tree_Node_number_of_artificials (ppl_const_PIP_Tree_Node_t pip_tree, ppl_-dimension_type *m)
- int ppl_PIP_Tree_Node_begin (ppl_const_PIP_Tree_Node_t pip_tree, ppl_Artificial_Parameter_-Sequence_const_iterator_t pit)
- int ppl_PIP_Tree_Node_end (ppl_const_PIP_Tree_Node_t pip_tree, ppl_Artificial_Parameter_-Sequence_const_iterator_t pit)

- int ppl_PIP_Solution_Node_get_parametric_values (ppl_const_PIP_Solution_Node_t pip_sol, ppl_dimension_type var, ppl_const_Linear_Expression_t *le)
- int ppl_PIP_Solution_Node_OK (ppl_const_PIP_Solution_Node_t pip_sol)
- int ppl_PIP_Decision_Node_OK (ppl_const_PIP_Decision_Node_t pip_dec)
- int ppl_PIP_Decision_Node_get_child_node (ppl_const_PIP_Decision_Node_t pip_dec, int b, ppl_const_PIP_Tree_Node_t *pip_tree)
- int ppl_Artificial_Parameter_get_Linear_Expression (ppl_const_Artificial_Parameter_t ap, ppl_Linear_Expression_t le)
- int ppl_Artificial_Parameter_coefficient (ppl_const_Artificial_Parameter_t ap, ppl_dimension_type var, ppl_Coefficient_t n)
- int ppl_Artificial_Parameter_inhomogeneous_term (ppl_const_Artificial_Parameter_t ap, ppl_Coefficient_t n)
- int ppl_Artificial_Parameter_denominator (ppl_const_Artificial_Parameter_t ap, ppl_Coefficient_t n)
- int ppl_new_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t *papit)
- int ppl_new_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t *papit, ppl_const_Artificial_Parameter_Sequence_const_iterator_t apit)
- int ppl_delete_Artificial_Parameter_Sequence_const_iterator (ppl_const_Artificial_Parameter_Sequence_const_iterator_t apit)
- int ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t dst, ppl_const_Artificial_Parameter_Sequence_const_iterator_t src)
- int ppl_Artificial_Parameter_Sequence_const_iterator_dereference (ppl_const_Artificial_Parameter_Sequence_const_iterator_t apit, ppl_const_Artificial_Parameter_t *pap)
- int ppl_Artificial_Parameter_Sequence_const_iterator_increment (ppl_Artificial_Parameter_Sequence_const_iterator_t apit)
- int ppl_Artificial_Parameter_Sequence_const_iterator_equal_test (ppl_const_Artificial_Parameter_Sequence_const_iterator_t x, ppl_const_Artificial_Parameter_Sequence_const_iterator_t y)
- int ppl_io_print_variable (ppl_dimension_type var)

  Pretty-prints `var` *to* `stdout`*.*

- int ppl_io_fprint_variable (FILE *stream, ppl_dimension_type var)

  Pretty-prints `var` *to the given output* `stream`*.*

- int ppl_io_asprint_variable (char **strp, ppl_dimension_type var)

  Pretty-prints `var` *to a malloc-allocated string, a pointer to which is returned via* `strp`*.*

- char * ppl_io_wrap_string (const char *src, unsigned indent_depth, unsigned preferred_first_line_length, unsigned preferred_line_length)

  Utility function for the wrapping of lines of text.

- int ppl_io_set_variable_output_function (ppl_io_variable_output_function_type *p)

  Sets the output function to be used for printing variables to `p`*.*

- int ppl_io_get_variable_output_function (ppl_io_variable_output_function_type **pp)

  Writes a pointer to the current variable output function to `pp`*.*

Variables

- error_handler_type Parma_Polyhedra_Library::Interfaces::C::user_error_handler = 0
- ppl_io_variable_output_function_type ∗ Parma_Polyhedra_Library::Interfaces::C::c_variable_-output_function
- Variable::output_function_type ∗ Parma_Polyhedra_Library::Interfaces::C::saved_cxx_Variable_-output_function
- unsigned int PPL_POLY_CON_RELATION_IS_DISJOINT

  Individual bit saying that the polyhedron and the set of points satisfying the constraint are disjoint.

- unsigned int PPL_POLY_CON_RELATION_STRICTLY_INTERSECTS

  Individual bit saying that the polyhedron intersects the set of points satisfying the constraint, but it is not included in it.

- unsigned int PPL_POLY_CON_RELATION_IS_INCLUDED

  Individual bit saying that the polyhedron is included in the set of points satisfying the constraint.

- unsigned int PPL_POLY_CON_RELATION_SATURATES

  Individual bit saying that the polyhedron is included in the set of points saturating the constraint.

- unsigned int PPL_POLY_GEN_RELATION_SUBSUMES

  Individual bit saying that adding the generator would not change the polyhedron.

- unsigned int PPL_COMPLEXITY_CLASS_POLYNOMIAL

  Code of the worst-case polynomial complexity class.

- unsigned int PPL_COMPLEXITY_CLASS_SIMPLEX

  Code of the worst-case exponential but typically polynomial complexity class.

- unsigned int PPL_COMPLEXITY_CLASS_ANY

  Code of the universal complexity class.

- int PPL_MIP_PROBLEM_STATUS_UNFEASIBLE
- int PPL_MIP_PROBLEM_STATUS_UNBOUNDED
- int PPL_MIP_PROBLEM_STATUS_OPTIMIZED
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_NAME_PRICING
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_EDGE_FLOAT
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_EDGE_EXACT
- int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_TEXTBOOK
- int PPL_PIP_PROBLEM_STATUS_UNFEASIBLE
- int PPL_PIP_PROBLEM_STATUS_OPTIMIZED
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_CUTTING_STRATEGY
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_FIRST
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_DEEPEST
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_ALL
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_PIVOT_ROW_STRATEGY
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_FIRST
- int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_MAX_-COLUMN
- int PPL_OPTIMIZATION_MODE_MINIMIZATION
- int PPL_OPTIMIZATION_MODE_MAXIMIZATION

11.5.1 Define Documentation

11.5.1.1 #define CONVERSION (unsigned)

Referenced by Parma_Polyhedra_Library::Interfaces::C::c_variable_default_output_function().

11.5.1.2 #define FORMAT "%u"

Referenced by Parma_Polyhedra_Library::Interfaces::C::c_variable_default_output_function().

11.5.2 Function Documentation

11.5.2.1 catch (...)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.2 catch (deterministic_timeout_exception &)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.3 catch (timeout_exception &)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.4 catch (const std::exception & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.5 catch (const std::runtime_error & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.6 catch (const std::overflow_error & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.7 catch (const std::logic_error & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.8 catch (const std::length_error & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.9 catch (const std::domain_error & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.10 catch (const std::invalid_argument & *e*)

Definition at line 2677 of file ppl_c_implementation_common.cc.

11.5.2.11 int ppl_add_Linear_Expression_to_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) `[related]`

Definition at line 557 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.12 int ppl_Artificial_Parameter_coefficient (ppl_const_Artificial_Parameter_t *ap*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Definition at line 2488 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.13 int ppl_Artificial_Parameter_denominator (ppl_const_Artificial_Parameter_t *ap*, ppl_Coefficient_t *n*) `[related]`

Definition at line 2510 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.14 int ppl_Artificial_Parameter_get_Linear_Expression (ppl_const_Artificial_Parameter_t *ap*, ppl_Linear_Expression_t *le*) [related]

Definition at line 2478 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.15 int ppl_Artificial_Parameter_inhomogeneous_term (ppl_const_Artificial_Parameter_t *ap*, ppl_Coefficient_t *n*)

Definition at line 2500 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.16 int ppl_Artificial_Parameter_Sequence_const_iterator_dereference (ppl_const_-Artificial_Parameter_Sequence_const_iterator_t *apit*, ppl_const_Artificial_Parameter_t ∗ *pap*) [related]

Definition at line 2561 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.17 int ppl_Artificial_Parameter_Sequence_const_iterator_equal_test (ppl_const_Artificial_Parameter_Sequence_const_iterator_t *x*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *y*) [related]

Definition at line 2581 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.18 int ppl_Artificial_Parameter_Sequence_const_iterator_increment (ppl_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Definition at line 2572 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.19 int ppl_assign_Artificial_Parameter_Sequence_const_iterator_from_Artificial_-Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_-iterator_t *dst*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *src*) [related]

Definition at line 2550 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.20 int ppl_assign_Coefficient_from_Coefficient (ppl_Coefficient_t *dst*, ppl_const_Coefficient_t *src*) [related]

Definition at line 442 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.21 int ppl_assign_Coefficient_from_mpz_t (ppl_Coefficient_t *dst*, mpz_t *z*) [related]

Definition at line 434 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.22 int ppl_assign_Congruence_from_Congruence (ppl_Congruence_t *dst*, ppl_const_Congruence_t *src*) [related]

Definition at line 1311 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.23 int ppl_assign_Congruence_System_const_iterator_from_Congruence_-System_const_iterator (ppl_Congruence_System_const_iterator_t *dst*, ppl_const_Congruence_System_const_iterator_t *src*) [related]

Definition at line 1496 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.24 int ppl_assign_Congruence_System_from_Congruence_System (ppl_Congruence_System_t *dst*, ppl_const_Congruence_System_t *src*) [related]

Definition at line 1419 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.25 int ppl_assign_Constraint_from_Constraint (ppl_Constraint_t *dst*, ppl_const_Constraint_t *src*) [related]

Definition at line 697 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.26 int ppl_assign_Constraint_System_const_iterator_from_Constraint_-System_const_iterator (ppl_Constraint_System_const_iterator_t *dst*, ppl_const_Constraint_System_const_iterator_t *src*) [related]

Definition at line 895 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.27 int ppl_assign_Constraint_System_from_Constraint_System (ppl_Constraint_System_t *dst*, ppl_const_Constraint_System_t *src*) [related]

Definition at line 810 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.28 int ppl_assign_Generator_from_Generator (ppl_Generator_t *dst*, ppl_const_Generator_t *src*) [related]

Definition at line 1017 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.29 int ppl_assign_Generator_System_const_iterator_from_Generator_-System_const_iterator (ppl_Generator_System_const_iterator_t *dst*, ppl_const_Generator_System_const_iterator_t *src*) [related]

Definition at line 1206 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.30 int ppl_assign_Generator_System_from_Generator_System (ppl_Generator_System_t *dst*, ppl_const_Generator_System_t *src*) [related]

Definition at line 1130 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.31 int ppl_assign_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t *dst*, ppl_const_Grid_Generator_t *src*) [related]

Definition at line 1609 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.32 int ppl_assign_Grid_Generator_System_const_iterator_from_Grid_Generator_-System_const_iterator (ppl_Grid_Generator_System_const_iterator_t *dst*, ppl_const_Grid_Generator_System_const_iterator_t *src*) [related]

Definition at line 1802 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.33 int ppl_assign_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t *dst*, ppl_const_Grid_Generator_System_t *src*) [related]

Definition at line 1724 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.34 int ppl_assign_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) [related]

Definition at line 526 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.35 int ppl_assign_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t *dst*, ppl_const_MIP_Problem_t *src*) [related]

Definition at line 1902 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.36 int ppl_assign_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t *dst*, ppl_const_PIP_Problem_t *src*) [related]

Definition at line 2180 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.37 int ppl_Coefficient_is_bounded (void) [related]

Definition at line 458 of file ppl_c_implementation_common.cc.

11.5.2.38 int ppl_Coefficient_max (mpz_t *max*) [related]

Definition at line 477 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class().

11.5.2.39 int ppl_Coefficient_min (mpz_t *min*) [related]

Definition at line 464 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class().

11.5.2.40 int ppl_Coefficient_OK (ppl_const_Coefficient_t) [related]

Definition at line 452 of file ppl_c_implementation_common.cc.

11.5.2.41 int ppl_Coefficient_to_mpz_t (ppl_const_Coefficient_t *c*, mpz_t *z*) [related]

Definition at line 420 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class(), and Parma_Polyhedra_-Library::Interfaces::C::to_const().

11.5.2.42 int ppl_Congruence_coefficient (ppl_const_Congruence_t *c*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Definition at line 1329 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.43 int ppl_Congruence_inhomogeneous_term (ppl_const_Congruence_t *c*, ppl_Coefficient_t *n*) [related]

Definition at line 1340 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.44 int ppl_Congruence_modulus (ppl_const_Congruence_t *c*, ppl_Coefficient_t *m*) [related]

Definition at line 1350 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.45 int ppl_Congruence_OK (ppl_const_Congruence_t *c*) [related]

Definition at line 1360 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.46 int ppl_Congruence_space_dimension (ppl_const_Congruence_t *c*, ppl_dimension_type ∗ *m*) [related]

Definition at line 1321 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.47 int ppl_Congruence_System_begin (ppl_const_Congruence_System_t *cs*, ppl_Congruence_System_const_iterator_t *cit*) [related]

Definition at line 1506 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.48 int ppl_Congruence_System_clear (ppl_Congruence_System_t *cs*) [related]

Definition at line 1444 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.49 int ppl_Congruence_System_const_iterator_dereference (ppl_const_Congruence_System_const_iterator_t *cit*, ppl_const_Congruence_t * *pc*) [related]

Definition at line 1527 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.50 int ppl_Congruence_System_const_iterator_equal_test (ppl_const_Congruence_System_const_iterator_t *x*, ppl_const_Congruence_System_const_iterator_t *y*) [related]

Definition at line 1547 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.51 int ppl_Congruence_System_const_iterator_increment (ppl_Congruence_System_const_iterator_t *cit*) [related]

Definition at line 1538 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.52 int ppl_Congruence_System_empty (ppl_const_Congruence_System_t *cs*) [related]

Definition at line 1437 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.53 int ppl_Congruence_System_end (ppl_const_Congruence_System_t *cs*, ppl_Congruence_System_const_iterator_t *cit*) [related]

Definition at line 1516 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.54 int ppl_Congruence_System_insert_Congruence (ppl_Congruence_System_t *cs*, ppl_const_Congruence_t *c*) [related]

Definition at line 1451 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.55 int ppl_Congruence_System_OK (ppl_const_Congruence_System_t *cs*) [related]

Definition at line 1461 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.56 int ppl_Congruence_System_space_dimension (ppl_const_Congruence_System_t *cs*, ppl_dimension_type * *m*) [related]

Definition at line 1428 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.57 int ppl_Constraint_coefficient (ppl_const_Constraint_t *c*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Definition at line 730 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.58 int ppl_Constraint_inhomogeneous_term (ppl_const_Constraint_t *c*, ppl_Coefficient_t *n*) [related]

Definition at line 741 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.59 int ppl_Constraint_OK (ppl_const_Constraint_t *c*) [related]

Definition at line 751 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.60 int ppl_Constraint_space_dimension (ppl_const_Constraint_t *c*, ppl_dimension_type * *m*) [related]

Definition at line 707 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.61 int ppl_Constraint_System_begin (ppl_const_Constraint_System_t *cs*, ppl_Constraint_System_const_iterator_t *cit*) [related]

Definition at line 905 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.62 int ppl_Constraint_System_clear (ppl_Constraint_System_t *cs*) [related]

Definition at line 843 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.63 int ppl_Constraint_System_const_iterator_dereference (ppl_const_-Constraint_System_const_iterator_t *cit*, ppl_const_Constraint_t * *pc*) [related]

Definition at line 926 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.64 int ppl_Constraint_System_const_iterator_equal_test (ppl_const_Constraint_-System_const_iterator_t *x*, ppl_const_Constraint_System_const_iterator_t *y*) [related]

Definition at line 946 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.65 int ppl_Constraint_System_const_iterator_increment (ppl_Constraint_System_const_-iterator_t *cit*) [related]

Definition at line 937 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.66 int ppl_Constraint_System_empty (ppl_const_Constraint_System_t *cs*) [related]

Definition at line 828 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.67 int ppl_Constraint_System_end (ppl_const_Constraint_System_t *cs*, ppl_Constraint_System_const_iterator_t *cit*) [related]

Definition at line 915 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.68 int ppl_Constraint_System_has_strict_inequalities (ppl_const_Constraint_System_t *cs*) [related]

Definition at line 836 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.69 int ppl_Constraint_System_insert_Constraint (ppl_Constraint_System_t *cs*, ppl_const_Constraint_t *c*) [related]

Definition at line 850 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.70 int ppl_Constraint_System_OK (ppl_const_Constraint_System_t *cs*) [related]

Definition at line 860 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.71 int ppl_Constraint_System_space_dimension (ppl_const_Constraint_System_t *cs*, ppl_dimension_type * *m*) [related]

Definition at line 819 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.72 int ppl_Constraint_type (ppl_const_Constraint_t *c*) [related]

Definition at line 715 of file ppl_c_implementation_common.cc.

References PPL_CONSTRAINT_TYPE_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_OR_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_THAN, and Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.73 int ppl_delete_Artificial_Parameter_Sequence_const_iterator (ppl_const_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Definition at line 2541 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.74 int ppl_delete_Coefficient (ppl_const_Coefficient_t *c*) [related]

Definition at line 427 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.75 int ppl_delete_Congruence (ppl_const_Congruence_t *le*) [related]

Definition at line 1304 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.76 int ppl_delete_Congruence_System (ppl_const_Congruence_System_t *cs*) [related]

Definition at line 1411 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.77 int ppl_delete_Congruence_System_const_iterator (ppl_const_Congruence_System_const_iterator_t *cit*) [related]

Definition at line 1487 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.78 int ppl_delete_Constraint (ppl_const_Constraint_t *le*) [related]

Definition at line 690 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.79 int ppl_delete_Constraint_System (ppl_const_Constraint_System_t *cs*) [related]

Definition at line 802 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.80 int ppl_delete_Constraint_System_const_iterator (ppl_const_Constraint_System_-const_iterator_t *cit*) [related]

Definition at line 886 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.81 int ppl_delete_Generator (ppl_const_Generator_t *le*) [related]

Definition at line 1010 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.82 int ppl_delete_Generator_System (ppl_const_Generator_System_t *gs*) [related]

Definition at line 1122 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.83 int ppl_delete_Generator_System_const_iterator (ppl_const_Generator_System_const_-iterator_t *git*) [related]

Definition at line 1198 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.84 int ppl_delete_Grid_Generator (ppl_const_Grid_Generator_t *le*) [related]

Definition at line 1601 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.85 int ppl_delete_Grid_Generator_System (ppl_const_Grid_Generator_System_t *gs*) `[related]`

Definition at line 1716 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.86 int ppl_delete_Grid_Generator_System_const_iterator (ppl_const_Grid_Generator_-System_const_iterator_t *git*) `[related]`

Definition at line 1794 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.87 int ppl_delete_Linear_Expression (ppl_const_Linear_Expression_t *le*) `[related]`

Definition at line 518 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.88 int ppl_delete_MIP_Problem (ppl_const_MIP_Problem_t *mip*) `[related]`

Definition at line 1895 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.89 int ppl_delete_PIP_Problem (ppl_const_PIP_Problem_t *pip*) `[related]`

Definition at line 2190 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.90 int ppl_Generator_coefficient (ppl_const_Generator_t *g*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Definition at line 1052 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.91 int ppl_Generator_divisor (ppl_const_Generator_t *g*, ppl_Coefficient_t *n*) `[related]`

Definition at line 1063 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.92 int ppl_Generator_OK (ppl_const_Generator_t *g*) [related]

Definition at line 1073 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.93 int ppl_Generator_space_dimension (ppl_const_Generator_t *g*, ppl_dimension_type ∗ *m*) [related]

Definition at line 1027 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.94 int ppl_Generator_System_begin (ppl_const_Generator_System_t *gs*, ppl_Generator_System_const_iterator_t *git*) [related]

Definition at line 1216 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.95 int ppl_Generator_System_clear (ppl_Generator_System_t *gs*) [related]

Definition at line 1155 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.96 int ppl_Generator_System_const_iterator_dereference (ppl_const_-Generator_System_const_iterator_t *git*, ppl_const_Generator_t ∗ *pg*) [related]

Definition at line 1237 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.97 int ppl_Generator_System_const_iterator_equal_test (ppl_const_Generator_-System_const_iterator_t *x*, ppl_const_Generator_System_const_iterator_t *y*) [related]

Definition at line 1257 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.98 int ppl_Generator_System_const_iterator_increment (ppl_Generator_System_const_iterator_t *git*) [related]

Definition at line 1248 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.99 int ppl_Generator_System_empty (ppl_const_Generator_System_t *gs*) [related]

Definition at line 1148 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.100 int ppl_Generator_System_end (ppl_const_Generator_System_t *gs*, ppl_Generator_System_const_iterator_t *git*) [related]

Definition at line 1226 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.101 int ppl_Generator_System_insert_Generator (ppl_Generator_System_t *gs*, ppl_const_Generator_t *g*) [related]

Definition at line 1162 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.102 int ppl_Generator_System_OK (ppl_const_Generator_System_t *gs*) [related]

Definition at line 1172 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.103 int ppl_Generator_System_space_dimension (ppl_const_Generator_System_t *gs*, ppl_dimension_type $*$ *m*) [related]

Definition at line 1139 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.104 int ppl_Generator_type (ppl_const_Generator_t *g*) [related]

Definition at line 1035 of file ppl_c_implementation_common.cc.

References PPL_GENERATOR_TYPE_CLOSURE_POINT, PPL_GENERATOR_TYPE_LINE, PPL_GENERATOR_TYPE_POINT, PPL_GENERATOR_TYPE_RAY, and Parma_Polyhedra_-Library::Interfaces::C::to_const().

11.5.2.105 int ppl_Grid_Generator_coefficient (ppl_const_Grid_Generator_t *g*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) [related]

Definition at line 1642 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.106 int ppl_Grid_Generator_divisor (ppl_const_Grid_Generator_t *g*, ppl_Coefficient_t *n*) [related]

Definition at line 1653 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.107 int ppl_Grid_Generator_OK (ppl_const_Grid_Generator_t *g*) [related]

Definition at line 1663 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.108 int ppl_Grid_Generator_space_dimension (ppl_const_Grid_Generator_t *g*, ppl_dimension_type ∗ *m*) [related]

Definition at line 1619 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.109 int ppl_Grid_Generator_System_begin (ppl_const_Grid_Generator_System_t *gs*, ppl_Grid_Generator_System_const_iterator_t *git*) [related]

Definition at line 1813 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.110 int ppl_Grid_Generator_System_clear (ppl_Grid_Generator_System_t *gs*) [related]

Definition at line 1749 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.111 int ppl_Grid_Generator_System_const_iterator_dereference (ppl_const_Grid_-Generator_System_const_iterator_t *git*, ppl_const_Grid_Generator_t * *pg*) [related]

Definition at line 1835 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.112 int ppl_Grid_Generator_System_const_iterator_equal_test (ppl_const_Grid_Generator_System_const_iterator_t *x*, ppl_const_Grid_Generator_-System_const_iterator_t *y*) [related]

Definition at line 1855 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.113 int ppl_Grid_Generator_System_const_iterator_increment (ppl_Grid_Generator_System_const_iterator_t *git*) [related]

Definition at line 1846 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.114 int ppl_Grid_Generator_System_empty (ppl_const_Grid_Generator_System_t *gs*) [related]

Definition at line 1742 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.115 int ppl_Grid_Generator_System_end (ppl_const_Grid_Generator_System_t *gs*, ppl_Grid_Generator_System_const_iterator_t *git*) [related]

Definition at line 1824 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.116 int ppl_Grid_Generator_System_insert_Grid_Generator (ppl_Grid_Generator_System_t *gs*, ppl_const_Grid_Generator_t *g*) [related]

Definition at line 1757 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.117 int ppl_Grid_Generator_System_OK (ppl_const_Grid_Generator_System_t *gs*) [related]

Definition at line 1767 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.118 int ppl_Grid_Generator_System_space_dimension (ppl_const_Grid_Generator_System_t *gs*, ppl_dimension_type * *m*) [related]

Definition at line 1733 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.119 int ppl_Grid_Generator_type (ppl_const_Grid_Generator_t *g*) [related]

Definition at line 1627 of file ppl_c_implementation_common.cc.

References PPL_GRID_GENERATOR_TYPE_LINE, PPL_GRID_GENERATOR_TYPE_PARAMETER, PPL_GRID_GENERATOR_TYPE_POINT, and Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.120 int ppl_Linear_Expression_add_to_coefficient (ppl_Linear_Expression_t *le*, ppl_dimension_type *var*, ppl_const_Coefficient_t *n*) [related]

Definition at line 535 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.121 int ppl_Linear_Expression_add_to_inhomogeneous (ppl_Linear_Expression_t *le*, ppl_const_Coefficient_t *n*) `[related]`

Definition at line 546 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.122 int ppl_Linear_Expression_all_homogeneous_terms_are_zero (ppl_const_Linear_Expression_t *le*) `[related]`

Definition at line 628 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.123 int ppl_Linear_Expression_coefficient (ppl_const_Linear_Expression_t *le*, ppl_dimension_type *var*, ppl_Coefficient_t *n*) `[related]`

Definition at line 594 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.124 int ppl_Linear_Expression_inhomogeneous_term (ppl_const_Linear_Expression_t *le*, ppl_Coefficient_t *n*) `[related]`

Definition at line 605 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.125 int ppl_Linear_Expression_is_zero (ppl_const_Linear_Expression_t *le*) `[related]`

Definition at line 621 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.126 int ppl_Linear_Expression_OK (ppl_const_Linear_Expression_t *le*) `[related]`

Definition at line 615 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.127 int ppl_Linear_Expression_space_dimension (ppl_const_Linear_Expression_t *le*, ppl_dimension_type * *m*) [related]

Definition at line 586 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.128 int ppl_MIP_Problem_add_constraint (ppl_MIP_Problem_t *mip*, ppl_const_Constraint_t *c*) [related]

Definition at line 2010 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.129 int ppl_MIP_Problem_add_constraints (ppl_MIP_Problem_t *mip*, ppl_const_Constraint_System_t *cs*) [related]

Definition at line 2020 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.130 int ppl_MIP_Problem_add_space_dimensions_and_embed (ppl_MIP_Problem_t *mip*, ppl_dimension_type *d*) [related]

Definition at line 1988 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.131 int ppl_MIP_Problem_add_to_integer_space_dimensions (ppl_MIP_Problem_t *mip*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

Definition at line 1997 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.132 int ppl_MIP_Problem_clear (ppl_MIP_Problem_t *mip*) [related]

Definition at line 1981 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.133 int ppl_MIP_Problem_constraint_at_index (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type *i*, ppl_const_Constraint_t ∗ *pc*) `[related]`

Definition at line 1950 of file ppl_c_implementation_common.cc.

References ppl_MIP_Problem_tag::ppl_MIP_Problem_number_of_constraints(), and Parma_Polyhedra_-Library::Interfaces::C::to_const().

11.5.2.134 int ppl_MIP_Problem_evaluate_objective_function (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t *g*, ppl_Coefficient_t *num*, ppl_Coefficient_t *den*) `[related]`

Definition at line 2062 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.135 int ppl_MIP_Problem_external_memory_in_bytes (ppl_const_MIP_Problem_t *mip*, size_t ∗ *sz*) `[related]`

Definition at line 2138 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.136 int ppl_MIP_Problem_feasible_point (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t ∗ *pg*) `[related]`

Definition at line 2076 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.137 int ppl_MIP_Problem_get_control_parameter (ppl_const_MIP_Problem_t *mip*, int *name*) `[related]`

Definition at line 2105 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.138 int ppl_MIP_Problem_integer_space_dimensions (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type *ds*[ ]) `[related]`

Definition at line 1929 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.139 int ppl_MIP_Problem_is_satisfiable (ppl_const_MIP_Problem_t *mip*) [related]

Definition at line 2050 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.140 int ppl_MIP_Problem_number_of_constraints (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type ∗ *m*) [related]

Definition at line 1941 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.141 int ppl_MIP_Problem_number_of_integer_space_dimensions (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type ∗ *m*) [related]

Definition at line 1920 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.142 int ppl_MIP_Problem_objective_function (ppl_const_MIP_Problem_t *mip*, ppl_const_Linear_Expression_t ∗ *ple*) [related]

Definition at line 1966 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.143 int ppl_MIP_Problem_OK (ppl_const_MIP_Problem_t *mip*) [related]

Definition at line 2124 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.144 int ppl_MIP_Problem_optimal_value (ppl_const_MIP_Problem_t *mip*, ppl_Coefficient_t *num*, ppl_Coefficient_t *den*) [related]

Definition at line 2094 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.145 int ppl_MIP_Problem_optimization_mode (ppl_const_MIP_Problem_t *mip*) [related]

Definition at line 1975 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.146 int ppl_MIP_Problem_optimizing_point (ppl_const_MIP_Problem_t *mip*, ppl_const_Generator_t * *pg*) [related]

Definition at line 2085 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.147 int ppl_MIP_Problem_set_control_parameter (ppl_MIP_Problem_t *mip*, int *value*) [related]

Definition at line 2114 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.148 int ppl_MIP_Problem_set_objective_function (ppl_MIP_Problem_t *mip*, ppl_const_Linear_Expression_t *le*) [related]

Definition at line 2030 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.149 int ppl_MIP_Problem_set_optimization_mode (ppl_MIP_Problem_t *mip*, int *mode*) [related]

Definition at line 2040 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.150 int ppl_MIP_Problem_solve (ppl_const_MIP_Problem_t *mip*) [related]

Definition at line 2056 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.151 int ppl_MIP_Problem_space_dimension (ppl_const_MIP_Problem_t *mip*, ppl_dimension_type * *m*) [related]

Definition at line 1912 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.152 int ppl_MIP_Problem_total_memory_in_bytes (ppl_const_MIP_Problem_t *mip*, size_t * *sz*) [related]

Definition at line 2130 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.153 int ppl_multiply_Linear_Expression_by_Coefficient (ppl_Linear_Expression_t *le*, ppl_const_Coefficient_t *n*) [related]

Definition at line 576 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.154 int ppl_new_Artificial_Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_iterator_t * *papit*) [related]

Definition at line 2524 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.155 int ppl_new_Artificial_Parameter_Sequence_const_iterator_from_Artificial_-Parameter_Sequence_const_iterator (ppl_Artificial_Parameter_Sequence_const_-iterator_t * *papit*, ppl_const_Artificial_Parameter_Sequence_const_iterator_t *apit*) [related]

Definition at line 2532 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.156 int ppl_new_Coefficient (ppl_Coefficient_t * *pc*) [related]

Definition at line 397 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.157 int ppl_new_Coefficient_from_Coefficient (ppl_Coefficient_t * *pc*, ppl_const_Coefficient_t *c*) [related]

Definition at line 411 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.158 int ppl_new_Coefficient_from_mpz_t (ppl_Coefficient_t * *pc*, mpz_t *z*) [related]

Definition at line 404 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.159 int ppl_new_Congruence (ppl_Congruence_t * *pc*, ppl_const_Linear_Expression_t *le*, ppl_const_Coefficient_t *m*) [related]

Definition at line 1268 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.160 int ppl_new_Congruence_from_Congruence (ppl_Congruence_t * *pc*, ppl_const_Congruence_t *c*) [related]

Definition at line 1295 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.161 int ppl_new_Congruence_System (ppl_Congruence_System_t * *pcs*) [related]

Definition at line 1377 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.162 int ppl_new_Congruence_System_const_iterator (ppl_Congruence_System_const_-iterator_t * *pcit*) [related]

Definition at line 1470 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.163 int ppl_new_Congruence_System_const_iterator_from_Congruence_-System_const_iterator (ppl_Congruence_System_const_iterator_t * *pcit*, ppl_const_Congruence_System_const_iterator_t *cit*) [related]

Definition at line 1478 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.164 int ppl_new_Congruence_System_from_Congruence (ppl_Congruence_System_t * *pcs*, ppl_const_Congruence_t *c*) [related]

Definition at line 1393 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.165 int ppl_new_Congruence_System_from_Congruence_System (ppl_Congruence_System_t * *pcs*, ppl_const_Congruence_System_t *cs*) [related]

Definition at line 1403 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.166 int ppl_new_Congruence_System_zero_dim_empty (ppl_Congruence_System_t * *pcs*) [related]

Definition at line 1384 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.167 int ppl_new_Congruence_zero_dim_false (ppl_Congruence_t * *pc*) [related]

Definition at line 1281 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.168 int ppl_new_Congruence_zero_dim_integrality (ppl_Congruence_t * *pc*) [related]

Definition at line 1288 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.169 int ppl_new_Constraint (ppl_Constraint_t * *pc*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Constraint_Type *t*) [related]

Definition at line 636 of file ppl_c_implementation_common.cc.

References PPL_CONSTRAINT_TYPE_EQUAL, PPL_CONSTRAINT_TYPE_GREATER_OR_-EQUAL, PPL_CONSTRAINT_TYPE_GREATER_THAN, PPL_CONSTRAINT_TYPE_LESS_OR_-EQUAL, PPL_CONSTRAINT_TYPE_LESS_THAN, Parma_Polyhedra_Library::Interfaces::C::to_-const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.170 int ppl_new_Constraint_from_Constraint (ppl_Constraint_t * *pc*, ppl_const_Constraint_t *c*) [related]

Definition at line 681 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.171 int ppl_new_Constraint_System (ppl_Constraint_System_t * *pcs*) [related]

Definition at line 768 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.172 int ppl_new_Constraint_System_const_iterator (ppl_Constraint_System_const_-iterator_t * *pcit*) [related]

Definition at line 869 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.173 int ppl_new_Constraint_System_const_iterator_from_Constraint_-System_const_iterator (ppl_Constraint_System_const_iterator_t * *pcit*, ppl_const_Constraint_System_const_iterator_t *cit*) [related]

Definition at line 877 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.174 int ppl_new_Constraint_System_from_Constraint (ppl_Constraint_System_t * *pcs*, ppl_const_Constraint_t *c*) [related]

Definition at line 784 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.175 int ppl_new_Constraint_System_from_Constraint_System (ppl_Constraint_System_t * *pcs*, ppl_const_Constraint_System_t *cs*) [related]

Definition at line 794 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.176 int ppl_new_Constraint_System_zero_dim_empty (ppl_Constraint_System_t * *pcs*) [related]

Definition at line 775 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.177 int ppl_new_Constraint_zero_dim_false (ppl_Constraint_t * *pc*) [related]

Definition at line 667 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.178 int ppl_new_Constraint_zero_dim_positivity (ppl_Constraint_t * *pc*) [related]

Definition at line 674 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.179 int ppl_new_Generator (ppl_Generator_t * *pg*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Generator_Type *t*, ppl_const_Coefficient_t *d*) [related]

Definition at line 957 of file ppl_c_implementation_common.cc.

References PPL_GENERATOR_TYPE_CLOSURE_POINT, PPL_GENERATOR_TYPE_LINE, PPL_GENERATOR_TYPE_POINT, PPL_GENERATOR_TYPE_RAY, Parma_Polyhedra_-Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.180 int ppl_new_Generator_from_Generator (ppl_Generator_t * *pg*, ppl_const_Generator_t *g*) [related]

Definition at line 1001 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.181 int ppl_new_Generator_System (ppl_Generator_System_t * *pgs*) [related]

Definition at line 1090 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.182 int ppl_new_Generator_System_const_iterator (ppl_Generator_System_const_-iterator_t * *pgit*) [related]

Definition at line 1181 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.183 int ppl_new_Generator_System_const_iterator_from_Generator_-System_const_iterator (ppl_Generator_System_const_iterator_t * *pgit*, ppl_const_Generator_System_const_iterator_t *git*) [related]

Definition at line 1189 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.184 int ppl_new_Generator_System_from_Generator (ppl_Generator_System_t * *pgs*, ppl_const_Generator_t *g*) [related]

Definition at line 1104 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.185 int ppl_new_Generator_System_from_Generator_System (ppl_Generator_System_t * *pgs*, ppl_const_Generator_System_t *gs*) [related]

Definition at line 1114 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.186 int ppl_new_Generator_System_zero_dim_univ (ppl_Generator_System_t * *pgs*)

Definition at line 1097 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.187 int ppl_new_Generator_zero_dim_closure_point (ppl_Generator_t * *pg*) [related]

Definition at line 994 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.188 int ppl_new_Generator_zero_dim_point (ppl_Generator_t * *pg*) [related]

Definition at line 987 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.189 int ppl_new_Grid_Generator (ppl_Grid_Generator_t * *pg*, ppl_const_Linear_Expression_t *le*, enum ppl_enum_Grid_Generator_Type *t*, ppl_const_Coefficient_t *d*) [related]

Definition at line 1558 of file ppl_c_implementation_common.cc.

References PPL_GRID_GENERATOR_TYPE_LINE, PPL_GRID_GENERATOR_TYPE_PARAMETER, PPL_GRID_GENERATOR_TYPE_POINT, Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.190 int ppl_new_Grid_Generator_from_Grid_Generator (ppl_Grid_Generator_t * *pg*, ppl_const_Grid_Generator_t *g*) [related]

Definition at line 1592 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.191 int ppl_new_Grid_Generator_System (ppl_Grid_Generator_System_t * *pgs*) [related]

Definition at line 1682 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.192 int ppl_new_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t * *pgit*) [related]

Definition at line 1776 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.193 int ppl_new_Grid_Generator_System_const_iterator_from_Grid_Generator_System_const_iterator (ppl_Grid_Generator_System_const_iterator_t * *pgit*, ppl_const_Grid_Generator_System_const_iterator_t *git*) [related]

Definition at line 1784 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.194 int ppl_new_Grid_Generator_System_from_Grid_Generator (ppl_Grid_Generator_System_t * *pgs*, ppl_const_Grid_Generator_t *g*) [related]

Definition at line 1699 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.195 int ppl_new_Grid_Generator_System_from_Grid_Generator_System (ppl_Grid_Generator_System_t * *pgs*, ppl_const_Grid_Generator_System_t *gs*) [related]

Definition at line 1708 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.196 int ppl_new_Grid_Generator_System_zero_dim_univ (ppl_Grid_Generator_System_t * *pgs*)

Definition at line 1690 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.197 int ppl_new_Grid_Generator_zero_dim_point (ppl_Grid_Generator_t * *pg*) [related]

Definition at line 1585 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.198 int ppl_new_Linear_Expression (ppl_Linear_Expression_t * *ple*) [related]

Definition at line 492 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.199 int ppl_new_Linear_Expression_from_Congruence (ppl_Linear_Expression_t * *ple*, ppl_const_Congruence_t *c*) [related]

Definition at line 1366 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.200 int ppl_new_Linear_Expression_from_Constraint (ppl_Linear_Expression_t * *ple*, ppl_const_Constraint_t *c*) [related]

Definition at line 757 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.201 int ppl_new_Linear_Expression_from_Generator (ppl_Linear_Expression_t * *ple*, ppl_const_Generator_t *g*) [related]

Definition at line 1079 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.202 int ppl_new_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t * *ple*, ppl_const_Linear_Expression_t *le*) [related]

Definition at line 510 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.203 int ppl_new_Linear_Expression_with_dimension (ppl_Linear_Expression_t * *ple*, ppl_dimension_type *d*) [related]

Definition at line 499 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.204 int ppl_new_MIP_Problem (ppl_MIP_Problem_t * *pmip*, ppl_dimension_type *d*, ppl_const_Constraint_System_t *cs*, ppl_const_Linear_Expression_t *le*, int *m*) [related]

Definition at line 1872 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.205 int ppl_new_MIP_Problem_from_MIP_Problem (ppl_MIP_Problem_t * *pmip*, ppl_const_MIP_Problem_t *mip*) [related]

Definition at line 1886 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.206 int ppl_new_MIP_Problem_from_space_dimension (ppl_MIP_Problem_t * *pmip*, ppl_dimension_type *d*) [related]

Definition at line 1864 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.207 int ppl_new_PIP_Problem_from_constraints (ppl_PIP_Problem_t * *ppip*, ppl_dimension_type *d*, ppl_Constraint_System_const_iterator_t *first*, ppl_Constraint_System_const_iterator_t *last*, size_t *n*, ppl_dimension_type *ds*[ ]) [related]

Definition at line 2164 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.208 int ppl_new_PIP_Problem_from_PIP_Problem (ppl_PIP_Problem_t * *dpip*, ppl_const_PIP_Problem_t *pip*) [related]

Definition at line 2154 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.209 int ppl_new_PIP_Problem_from_space_dimension (ppl_PIP_Problem_t * *ppip*, ppl_dimension_type *d*) [related]

Definition at line 2146 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.210 int ppl_PIP_Decision_Node_get_child_node (ppl_const_PIP_Decision_Node_t *pip_dec*, int *b*, ppl_const_PIP_Tree_Node_t * *pip_tree*) [related]

Definition at line 2468 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.211 int ppl_PIP_Decision_Node_OK (ppl_const_PIP_Decision_Node_t *pip_dec*)

Definition at line 2462 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.212 int ppl_PIP_Problem_add_constraint (ppl_PIP_Problem_t *pip*, ppl_const_Constraint_t *c*) [related]

Definition at line 2278 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.213 int ppl_PIP_Problem_add_constraints (ppl_PIP_Problem_t *pip*, ppl_const_Constraint_System_t *cs*) [related]

Definition at line 2288 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.214 int ppl_PIP_Problem_add_space_dimensions_and_embed (ppl_PIP_Problem_t *pip*, ppl_dimension_type *pip_vars*, ppl_dimension_type *pip_params*) [related]

Definition at line 2256 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.215 int ppl_PIP_Problem_add_to_parameter_space_dimensions (ppl_PIP_Problem_t *pip*, ppl_dimension_type *ds*[ ], size_t *n*) [related]

Definition at line 2266 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.216 int ppl_PIP_Problem_clear (ppl_PIP_Problem_t *pip*) [related]

Definition at line 2250 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.217 int ppl_PIP_Problem_constraint_at_index (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type *i*, ppl_const_Constraint_t ∗ *pc*) [related]

Definition at line 2235 of file ppl_c_implementation_common.cc.

References ppl_PIP_Problem_tag::ppl_PIP_Problem_number_of_constraints(), and Parma_Polyhedra_-Library::Interfaces::C::to_const().

11.5.2.218 int ppl_PIP_Problem_external_memory_in_bytes (ppl_const_PIP_Problem_t *pip*, size_t ∗ *sz*) [related]

Definition at line 2373 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.219 int ppl_PIP_Problem_get_big_parameter_dimension (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type ∗ *pd*) [related]

Definition at line 2349 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.220 int ppl_PIP_Problem_get_control_parameter (ppl_const_PIP_Problem_t *pip*, int *name*) [related]

Definition at line 2330 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.221 int ppl_PIP_Problem_is_satisfiable (ppl_const_PIP_Problem_t *pip*) [related]

Definition at line 2297 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.222 int ppl_PIP_Problem_number_of_constraints (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type ∗ *m*) [related]

Definition at line 2226 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.223 int ppl_PIP_Problem_number_of_parameter_space_dimensions (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type ∗ *m*) [related]

Definition at line 2206 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.224 int ppl_PIP_Problem_OK (ppl_const_PIP_Problem_t *pip*) [related]

Definition at line 2324 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.225 int ppl_PIP_Problem_optimizing_solution (ppl_const_PIP_Problem_t *pip*, ppl_const_PIP_Tree_Node_t ∗ *ppip_tree*) [related]

Definition at line 2316 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.226 int ppl_PIP_Problem_parameter_space_dimensions (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type *ds*[ ]) [related]

Definition at line 2214 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.227 int ppl_PIP_Problem_set_big_parameter_dimension (ppl_PIP_Problem_t *pip*, ppl_dimension_type *d*) [related]

Definition at line 2357 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.228 int ppl_PIP_Problem_set_control_parameter (ppl_PIP_Problem_t *pip*, int *value*) [related]

Definition at line 2339 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_nonconst().

11.5.2.229 int ppl_PIP_Problem_solution (ppl_const_PIP_Problem_t *pip*, ppl_const_PIP_Tree_Node_t ∗ *ppip_tree*) [related]

Definition at line 2308 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.230 int ppl_PIP_Problem_solve (ppl_const_PIP_Problem_t *pip*) [related]

Definition at line 2302 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.231 int ppl_PIP_Problem_space_dimension (ppl_const_PIP_Problem_t *pip*, ppl_dimension_type ∗ *m*) [related]

Definition at line 2197 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.232 int ppl_PIP_Problem_total_memory_in_bytes (ppl_const_PIP_Problem_t *pip*, size_t ∗ *sz*) [related]

Definition at line 2365 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.233 int ppl_PIP_Solution_Node_get_parametric_values (ppl_const_PIP_Solution_Node_t *pip_sol*, ppl_dimension_type *var*, ppl_const_Linear_Expression_t ∗ *le*) [related]

Definition at line 2445 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.234 int ppl_PIP_Solution_Node_OK (ppl_const_PIP_Solution_Node_t *pip_sol*)

Definition at line 2456 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.235 int ppl_PIP_Tree_Node_as_decision (ppl_const_PIP_Tree_Node_t *spip_tree*, ppl_const_PIP_Decision_Node_t ∗ *dpip_tree*) [related]

Definition at line 2389 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.236 int ppl_PIP_Tree_Node_as_solution (ppl_const_PIP_Tree_Node_t *spip_tree*, ppl_const_PIP_Solution_Node_t ∗ *dpip_tree*) [related]

Definition at line 2381 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.237 int ppl_PIP_Tree_Node_begin (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_Artificial_Parameter_Sequence_const_iterator_t *pit*) [related]

Definition at line 2423 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.238 int ppl_PIP_Tree_Node_end (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_Artificial_Parameter_Sequence_const_iterator_t *pit*) [related]

Definition at line 2434 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.2.239 int ppl_PIP_Tree_Node_get_constraints (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_const_Constraint_System_t ∗ *pcs*) [related]

Definition at line 2397 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.240 int ppl_PIP_Tree_Node_number_of_artificials (ppl_const_PIP_Tree_Node_t *pip_tree*, ppl_dimension_type ∗ *m*) [related]

Definition at line 2413 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.241 int ppl_PIP_Tree_Node_OK (ppl_const_PIP_Tree_Node_t *pip_tree*) [related]

Definition at line 2407 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const().

11.5.2.242 int ppl_set_error_handler (error_handler_type *h*)

Definition at line 175 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::user_error_handler.

11.5.2.243 int ppl_subtract_Linear_Expression_from_Linear_Expression (ppl_Linear_Expression_t *dst*, ppl_const_Linear_Expression_t *src*) [related]

Definition at line 567 of file ppl_c_implementation_common.cc.

References Parma_Polyhedra_Library::Interfaces::C::to_const(), and Parma_Polyhedra_-Library::Interfaces::C::to_nonconst().

11.5.3 Variable Documentation

11.5.3.1 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_NAME_PRICING [related]

Definition at line 155 of file ppl_c_implementation_common.cc.

11.5.3.2 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_-EDGE_EXACT [related]

Definition at line 157 of file ppl_c_implementation_common.cc.

11.5.3.3 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_STEEPEST_-EDGE_FLOAT [related]

Definition at line 156 of file ppl_c_implementation_common.cc.

11.5.3.4 int PPL_MIP_PROBLEM_CONTROL_PARAMETER_PRICING_TEXTBOOK [related]

Definition at line 158 of file ppl_c_implementation_common.cc.

11.5.3.5 int PPL_MIP_PROBLEM_STATUS_OPTIMIZED [related]

Definition at line 153 of file ppl_c_implementation_common.cc.

11.5.3.6 int PPL_MIP_PROBLEM_STATUS_UNBOUNDED [related]

Definition at line 152 of file ppl_c_implementation_common.cc.

11.5.3.7 int PPL_MIP_PROBLEM_STATUS_UNFEASIBLE [related]

Definition at line 151 of file ppl_c_implementation_common.cc.

11.5.3.8 int PPL_OPTIMIZATION_MODE_MAXIMIZATION [related]

Definition at line 172 of file ppl_c_implementation_common.cc.

11.5.3.9 int PPL_OPTIMIZATION_MODE_MINIMIZATION [related]

Definition at line 171 of file ppl_c_implementation_common.cc.

11.5.3.10 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_ALL [related]

Definition at line 166 of file ppl_c_implementation_common.cc.

11.5.3.11 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_-DEEPEST [related]

Definition at line 165 of file ppl_c_implementation_common.cc.

11.5.3.12 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_CUTTING_STRATEGY_-FIRST [related]

Definition at line 164 of file ppl_c_implementation_common.cc.

11.5.3.13 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_CUTTING_-STRATEGY [related]

Definition at line 163 of file ppl_c_implementation_common.cc.

11.5.3.14 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_NAME_PIVOT_ROW_-STRATEGY [related]

Definition at line 167 of file ppl_c_implementation_common.cc.

11.5.3.15 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_-FIRST [related]

Definition at line 168 of file ppl_c_implementation_common.cc.

11.5.3.16 int PPL_PIP_PROBLEM_CONTROL_PARAMETER_PIVOT_ROW_STRATEGY_-MAX_COLUMN [related]

Definition at line 169 of file ppl_c_implementation_common.cc.

11.5.3.17 int PPL_PIP_PROBLEM_STATUS_OPTIMIZED [related]

Definition at line 161 of file ppl_c_implementation_common.cc.

11.5.3.18 int PPL_PIP_PROBLEM_STATUS_UNFEASIBLE [related]

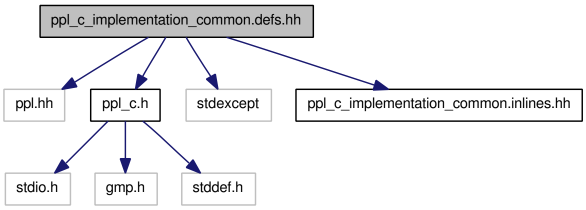
Definition at line 160 of file ppl_c_implementation_common.cc.

11.6 ppl_c_implementation_common.defs.hh File Reference

```
#include "ppl.hh"
#include "ppl_c.h"
```

```
#include <stdexcept>
#include "ppl_c_implementation_common.inlines.hh"
```

Include dependency graph for ppl_c_implementation_common.defs.hh:



Classes

- class Parma_Polyhedra_Library::Interfaces::C::Array_Partial_Function_Wrapper

  A class to wrap an array of fixed length into a partial function interface suitable for the map_space_-dimension() methods.

- class Parma_Polyhedra_Library::Interfaces::C::timeout_exception
- class Parma_Polyhedra_Library::Interfaces::C::deterministic_timeout_exception

Namespaces

- namespace Parma_Polyhedra_Library
- namespace Parma_Polyhedra_Library::Interfaces
- namespace Parma_Polyhedra_Library::Interfaces::C

Defines

- #define PPL_NO_AUTOMATIC_INITIALIZATION
- #define CATCH_STD_EXCEPTION(exception, code)
- #define CATCH_ALL
- #define DECLARE_CONVERSIONS(Type, CPP_Type)
- #define DEFINE_PRINT_FUNCTIONS(Type)
- #define DEFINE_ASCII_DUMP_FUNCTIONS(Type)
- #define DEFINE_ASCII_LOAD_FUNCTIONS(Type)
- #define DEFINE_ASCII_DUMP_LOAD_FUNCTIONS(Type)
- #define DEFINE_OUTPUT_FUNCTIONS(Type)

Typedefs

- typedef void(∗ Parma_Polyhedra_Library::Interfaces::C::error_handler_type)(enum ppl_enum_-error_code code, const char ∗description)

Functions

- void Parma_Polyhedra_Library::Interfaces::C::notify_error (enum ppl_enum_error_code code, const char *description)
- Relation_Symbol Parma_Polyhedra_Library::Interfaces::C::relation_symbol (enum ppl_enum_-Constraint_Type t)
- Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::C::bounded_integer_type_-width (enum ppl_enum_Bounded_Integer_Type_Width w)
- Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::C::bounded_-integer_type_representation (enum ppl_enum_Bounded_Integer_Type_Representation r)
- void Parma_Polyhedra_Library::Interfaces::C::reset_timeout ()
- void Parma_Polyhedra_Library::Interfaces::C::reset_deterministic_timeout ()

11.6.1 Define Documentation

11.6.1.1 #define CATCH_ALL

Definition at line 144 of file ppl_c_implementation_common.defs.hh.

11.6.1.2 #define CATCH_STD_EXCEPTION(exception, code)

Value:

```
catch (const std::exception& e) {               \
  notify_error(code, e.what()); \
  return code; \
}
```

Definition at line 138 of file ppl_c_implementation_common.defs.hh.

11.6.1.3 #define DECLARE_CONVERSIONS(Type, CPP_Type)

Definition at line 169 of file ppl_c_implementation_common.defs.hh.

11.6.1.4 #define DEFINE_ASCII_DUMP_FUNCTIONS(Type)

Definition at line 229 of file ppl_c_implementation_common.defs.hh.

11.6.1.5 #define DEFINE_ASCII_DUMP_LOAD_FUNCTIONS(Type)

Value:

```
DEFINE_ASCII_DUMP_FUNCTIONS(Type)               \
  DEFINE_ASCII_LOAD_FUNCTIONS(Type)
```

Definition at line 252 of file ppl_c_implementation_common.defs.hh.

11.6.1.6 #define DEFINE_ASCII_LOAD_FUNCTIONS(Type)

Definition at line 241 of file ppl_c_implementation_common.defs.hh.

11.6.1.7 #define DEFINE_OUTPUT_FUNCTIONS(Type)

Value:

```
DEFINE_PRINT_FUNCTIONS(Type)                    \
  DEFINE_ASCII_DUMP_LOAD_FUNCTIONS(Type)
```

Definition at line 256 of file ppl_c_implementation_common.defs.hh.

11.6.1.8 #define DEFINE_PRINT_FUNCTIONS(Type)

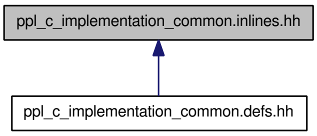
Definition at line 190 of file ppl_c_implementation_common.defs.hh.

11.6.1.9 #define PPL_NO_AUTOMATIC_INITIALIZATION

Definition at line 27 of file ppl_c_implementation_common.defs.hh.

11.7 ppl_c_implementation_common.inlines.hh File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- namespace Parma_Polyhedra_Library
- namespace Parma_Polyhedra_Library::Interfaces
- namespace Parma_Polyhedra_Library::Interfaces::C

Typedefs

- typedef Constraint_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Constraint_-System_const_iterator
- typedef Generator_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Generator_-System_const_iterator
- typedef Congruence_System::const_iterator Parma_Polyhedra_-Library::Interfaces::C::Congruence_System_const_iterator

- typedef Grid_Generator_System::const_iterator Parma_Polyhedra_Library::Interfaces::C::Grid_-Generator_System_const_iterator
- typedef PIP_Tree_Node::Artificial_Parameter Parma_Polyhedra_Library::Interfaces::C::Artificial_-Parameter
- typedef PIP_Tree_Node::Artificial_Parameter_Sequence Parma_Polyhedra_-Library::Interfaces::C::Artificial_Parameter_Sequence
- typedef PIP_Tree_Node::Artificial_Parameter_Sequence::const_iterator Parma_Polyhedra_-Library::Interfaces::C::Artificial_Parameter_Sequence_const_iterator

Functions

- mpz_class & Parma_Polyhedra_Library::Interfaces::C::reinterpret_mpz_class (mpz_t n)

  Reinterpret an mpz_t as mpz_class.

- const Coefficient ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Coefficient_t x)
- Coefficient ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Coefficient_t x)
- ppl_const_Coefficient_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Coefficient ∗x)
- ppl_Coefficient_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Coefficient ∗x)
- const Linear_Expression ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Linear_-Expression_t x)
- Linear_Expression ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Linear_-Expression_t x)
- ppl_const_Linear_Expression_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Linear_-Expression ∗x)
- ppl_Linear_Expression_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Linear_-Expression ∗x)
- const Constraint ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Constraint_t x)
- Constraint ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Constraint_t x)
- ppl_const_Constraint_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Constraint ∗x)
- ppl_Constraint_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Constraint ∗x)
- const Constraint_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_-Constraint_System_t x)
- Constraint_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Constraint_-System_t x)
- ppl_const_Constraint_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Constraint_System ∗x)
- ppl_Constraint_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Constraint_-System ∗x)
- const Constraint_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_-const_Constraint_System_const_iterator_t x)
- Constraint_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_-Constraint_System_const_iterator_t x)
- ppl_const_Constraint_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Constraint_System_const_iterator ∗x)
- ppl_Constraint_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Constraint_System_const_iterator ∗x)
- const Generator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Generator_t x)
- Generator ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Generator_t x)
- ppl_const_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Generator ∗x)
- ppl_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Generator ∗x)

- const Generator_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Generator_System_t x)
- Generator_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Generator_System_t x)
- ppl_const_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Generator_System ∗x)
- ppl_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Generator_System ∗x)
- const Generator_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Generator_System_const_iterator_t x)
- Generator_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Generator_System_const_iterator_t x)
- ppl_const_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Generator_System_const_iterator ∗x)
- ppl_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Generator_System_const_iterator ∗x)
- const Congruence ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Congruence_t x)
- Congruence ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Congruence_t x)
- ppl_const_Congruence_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Congruence ∗x)
- ppl_Congruence_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Congruence ∗x)
- const Congruence_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Congruence_System_t x)
- Congruence_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Congruence_System_t x)
- ppl_const_Congruence_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Congruence_System ∗x)
- ppl_Congruence_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Congruence_System ∗x)
- const Congruence_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Congruence_System_const_iterator_t x)
- Congruence_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Congruence_System_const_iterator_t x)
- ppl_const_Congruence_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Congruence_System_const_iterator ∗x)
- ppl_Congruence_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Congruence_System_const_iterator ∗x)
- const Grid_Generator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_t x)
- Grid_Generator ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_t x)
- ppl_const_Grid_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Grid_Generator ∗x)
- ppl_Grid_Generator_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Grid_Generator ∗x)
- const Grid_Generator_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_System_t x)
- Grid_Generator_System ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_System_t x)
- ppl_const_Grid_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Grid_Generator_System ∗x)
- ppl_Grid_Generator_System_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Grid_Generator_System ∗x)
- const Grid_Generator_System_const_iterator ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_Grid_Generator_System_const_iterator_t x)

- Grid_Generator_System_const_iterator * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Grid_Generator_System_const_iterator_t x)
- ppl_const_Grid_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_-const (const Grid_Generator_System_const_iterator *x)
- ppl_Grid_Generator_System_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (Grid_Generator_System_const_iterator *x)
- const Artificial_Parameter * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_-Artificial_Parameter_t x)
- Artificial_Parameter * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_Artificial_-Parameter_t x)
- ppl_const_Artificial_Parameter_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Artificial_Parameter *x)
- ppl_Artificial_Parameter_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Artificial_-Parameter *x)
- const Artificial_Parameter_Sequence * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_-const_Artificial_Parameter_Sequence_t x)
- Artificial_Parameter_Sequence * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_-Artificial_Parameter_Sequence_t x)
- ppl_const_Artificial_Parameter_Sequence_t Parma_Polyhedra_Library::Interfaces::C::to_const (const Artificial_Parameter_Sequence *x)
- ppl_Artificial_Parameter_Sequence_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (Artificial_Parameter_Sequence *x)
- const Artificial_Parameter_Sequence_const_iterator * Parma_Polyhedra_-Library::Interfaces::C::to_const (ppl_const_Artificial_Parameter_Sequence_const_iterator_t x)
- Artificial_Parameter_Sequence_const_iterator * Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (ppl_Artificial_Parameter_Sequence_const_iterator_t x)
- ppl_const_Artificial_Parameter_Sequence_const_iterator_t Parma_Polyhedra_-Library::Interfaces::C::to_const (const Artificial_Parameter_Sequence_const_iterator *x)
- ppl_Artificial_Parameter_Sequence_const_iterator_t Parma_Polyhedra_Library::Interfaces::C::to_-nonconst (Artificial_Parameter_Sequence_const_iterator *x)
- const MIP_Problem * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_MIP_-Problem_t x)
- MIP_Problem * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_MIP_Problem_t x)
- ppl_const_MIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_const (const MIP_Problem *x)
- ppl_MIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (MIP_Problem *x)
- const PIP_Problem * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Problem_t x)
- PIP_Problem * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Problem_t x)
- ppl_const_PIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Problem *x)
- ppl_PIP_Problem_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Problem *x)
- const PIP_Tree_Node * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_Tree_-Node_t x)
- PIP_Tree_Node * Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Tree_Node_t x)
- ppl_const_PIP_Tree_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_Tree_-Node *x)
- ppl_PIP_Tree_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Tree_Node *x)
- const PIP_Decision_Node * Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_-Decision_Node_t x)

- PIP_Decision_Node ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Decision_-Node_t x)
- ppl_const_PIP_Decision_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_-Decision_Node ∗x)
- ppl_PIP_Decision_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Decision_-Node ∗x)
- const PIP_Solution_Node ∗ Parma_Polyhedra_Library::Interfaces::C::to_const (ppl_const_PIP_-Solution_Node_t x)
- PIP_Solution_Node ∗ Parma_Polyhedra_Library::Interfaces::C::to_nonconst (ppl_PIP_Solution_-Node_t x)
- ppl_const_PIP_Solution_Node_t Parma_Polyhedra_Library::Interfaces::C::to_const (const PIP_-Solution_Node ∗x)
- ppl_PIP_Solution_Node_t Parma_Polyhedra_Library::Interfaces::C::to_nonconst (PIP_Solution_-Node ∗x)
- Relation_Symbol Parma_Polyhedra_Library::Interfaces::C::relation_symbol (enum ppl_enum_-Constraint_Type t)
- Bounded_Integer_Type_Width Parma_Polyhedra_Library::Interfaces::C::bounded_integer_type_-width (enum ppl_enum_Bounded_Integer_Type_Width w)
- Bounded_Integer_Type_Representation Parma_Polyhedra_Library::Interfaces::C::bounded_-integer_type_representation (enum ppl_enum_Bounded_Integer_Type_Representation r)
- Bounded_Integer_Type_Overflow Parma_Polyhedra_Library::Interfaces::C::bounded_integer_-type_overflow (enum ppl_enum_Bounded_Integer_Type_Overflow o)

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